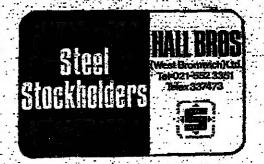
No. 27,650

Thursday August 31 1978



CONTINENTAL SELLING PRICES: AUSTRIA Sch 15; BELGIUM Fr 25; DENMARK Rr 3.5; FRANCE Fr 3.0; GERMANY DM 2.0; ITALY L 500; NETHERLANDS FI 2.0; NORWAY Kr 2.5; PORTUGAL Esc 20; SPAIN PG 40; SWEDEN Kr 3.25; SWITZERLAND Fr 2.0; EIRE 15p

BUSINESS

rally before extending Tuesday's

London

210 Gold Price

GENERAL

Equities UN may slip 2.8; send Namibia force

downturn. FT 30-share index up 0.8 carlier, finished 2.8 down at 503.0. Gold Mines Index rose 8.0 to 181.6 on a sharp recovery UN Security Council will meet in gold shares following rises in today to consider a proposal ny Dr. Kurt Waldheim, sec-New York. relary general, that 7.500 troops should be sent to assist O GILTS shorts lost to 1. due to upward pressure on U.S. Namibia - formerly South

interest rates. Government Securities Index edged 0.21 West Africa - in its hid for independence. lower to 70.42. In a written report to the council, Dr. Waldhem proposes the despatch of troops, plus 1.200 civilian officials and 360 civilian police. Their job would be to minimize the condense of the con GOLD rose \$1; to \$206;

and arrange elections. The move would be the largest by the UN since it became involved in the Congo in the 1960s. Back Page

he to maintain law and order

Vaccine queue

Thousands of people flocked to vaccination centres in Birming-ham as police continued their search for two holidaymakers who have been in contact with Birs, Janet Parker, the smallpox

.tonehouse plea

The daughter of former MP owned concerns whose pay claim includes 20 per cent rises for joil on Tuesday after hospital treatment, said that joil would kill her father. "I don't think its remaining oil and gas exploratively " and Lance Stopphyses 29 Australia in a deal worth should be a supply that the strain of the said that the mental tion and production interests in the strain and production interests in the strain and the said that the said th strain," said Jane Stonehouse, 29. Australia, in a deal worth about

The long wait

Briefly . . .

UK residents originating in the New Commonwealth and Pakistan numbered 1.85m in mid-1977. • BTR INDUSTRIES is to raise an increase of 76,000 on the £24.1m by a 1-for-7 rights issue

Baroness Tweedsmuir, who died BOC pre-tax profits fell to in March, left £169,358 gross £48.8m (£60.4m) on group sales (£167,367 net). group of doctors says months to June 30.

transcendental meditation should Page 33 and Lex he available on the National

Murder hunt began as fire which killed two men in Tottenham, Exceptional growth occurred in London, was found to be arson. ordinary branch new premiums.

CHIEF PRICE CHANGES (Prices in pence unless otherwis

| indicated) | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|
| RISES | | | | | | | |
| BOC Intal 69 + 2 | | | | | | | |
| TTD | | | | | | | |
| Compand Readstone 104 T 5 | | | | | | | |
| Tammer (S. W.) 147 + 7 | | | | | | | |
| Cainade In T i | | | | | | | |
| | | | | | | | |
| Haw Par 73 + 5 | | | | | | | |
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| The Planes Did to the Will T (| | | | | | | |
| Pres. Steyn | | | | | | | |
| Vaal Reels | | | | | | | |
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| Vaal Reels | | | | | | | |
| WINEPHEREN. | | | | | | | |
| FALLS cools - 1 | | | | | | | |
| Treas, 84pc 1982 19012 - 1 | | | | | | | |

| S | YESTERDAY |
|----|--|
| 36 | Excheq. 12pc '99-02 (£55 pd.)£541 - 1 |
| | Akroyd and Smithers 218 - 8 |
| | Blue Circle 289 - 5 |
| | Rougne Hollingsworth 273 - 7 |
| | Burton A |
| | Cullens A 142 - 8 |
| | General Accident = 226 = 6 |
| | Grovebell |
| | House of Frager 162 - 4 |
| | Mothercare |
| | Pearl Assnee 252 - 12 |
| | Racal Electronics 316 - 19 |
| | Rank Org |
| | Sun Alliance 566 - 10 |
| | Tarmac 162 - 6 |
| | Cuthric Corn - 370 - 10 |
| | Central Pacific 475 - 75 |
| | Southern Pacific 195 - 10 |

£20.8m, to a group headed by Bond Corporation Holdings and

at 285p a share. Page 33 and Lex

PEARL Assurance general branch first-half taxable loss increased to £1.17m (£220,000).

International union bid gold index to save jobs • EQUITIES attempted a small rally before extending Tuesday's at Chrysler

BY ALAN PIKE IN GENEVA

Trade union leaders from several countries yester-

Express, set in a Turkish jail, as an entry content of the law agreed to cut from the law agreed to cut from the sack Page; FT aerospace conjugate agreed to cut from the law agreed to

pc John Paul, speaking to the liege of Cardinals, admitted he efforts by the TUC to stop their inexperienced in central collaboration with his nals. But he gave no clus future policy.

The unions, bowever, were septiance of previous mergers showed how easily the conclusion of manual workers which the British unions have achieved and it is questionable how effective the employees could be made that next week's Trades Union Congress in Brighton. The Government of Takionakisation of manual workers which the British unions have achieved and it is questionable how effective the michanism of Takionakisation.

The unions, bowever, were does not compare with the 100 per cent organisation of manual workers which the British unions attacking the social contract at next week's Trades Union Congress in Brighton. The Government and organisation of manual workers which the British unions at only workers which the 100 per cent organisation of manual to unions at only workers which the 100 per cent organisation of manual to unions at only workers which the 100 per cent organisation of manual to unions



Prime rates up \(\frac{1}{4} \%

Board, acknowledged today that fiscal and monetary policy had failed to reduce the U.S. infiation rate, which was now "in the S per cent area." He gave warning that infiation would continue to accelerate unless further action was taken and he returned to his advocacy of a tax-based policy to offer incentives to labour and management to curb wags and prices increases.

He admitted that such a policy to offer incentification was a said.

Onder the trigger-prices system: at tair value and that important the lowest and level face a side to anti-dumping suits from the company shipments and omestic steel companies," he is specially speeded-up anti-dumping said.

Trigger prices are based on Mr. Harry Holiday, president and that inventories did not company wanted to go on honour high levels.

Treasury officials now doubt to avoid using anti-dumping laws had not committed itself to precipitous fall of the dollar action should betaken.

He admitted that such a policy He admitted that such a policy

would be difficult to administ Continued on Back Page

| LÍ IS | Economic Viewpoint, Page 31 | | | | | | |
|----------|---------------------------------|--|---|--|--|--|--|
| eenkhn | 2 tn New York | | | | | | |
| | _ | Aug. 30 | Previous | | | | |
| | Epot 1 month 3 months 12 months | \$1,9390.9390 0.63-0.47 dis 1,24-1,18 dis 4,56-4,46 dis | \$1,9445.94% 0.35.0.29 dis 1,22-1,16 dis 4,40-4,20 dis | | | | |

U.S. bank 'critical of BCCI'

BY DAVID LASCELLES

including loan loss provisions—
has been presented to a U.S.
This provides a new clue to Bank of America's reasons for its decision announced previously to reduce and eventually sell off its BCCI shareholding.

The evidence comes in an affadavit filed with the district court in Washington by Mr. Douglas Kraus, a lawyer acting for Financial General Bankshares, the bank holding company which is trying to fight off a takeover by BCCI.

The affadavit supports \(\) BCCI's loan loss reserves of Financial General's attempt to approximately \(\) \$3m (£1,54m)

Tourt.

Mr. Kraus says in his folio was "insatisfactory." A Bank of America official told Mr. Kraus shart whe amount of BCCI's real; estate loans of America official told Mr. Kraus that "the amount of BCCI's real estate loans in the Gulf was fairly high, and the market is not exciting there."

As a result, Bank of America fairly high, and the market is not exciting there."

As a result, Bank of America fairly high, and the market is not exciting there."

As a result, Bank of America fairly high, and the market is not exciting there."

As a result, Bank of America fairly high, and the market is not exciting there."

As a result, Bank of America official told Mr. Kraus saw it for law to excit to an interport at a meeting with Bank of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the bank of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the bank of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the bank of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board of America official told Mr. Kraus that the Board

Long-haul flights out of London
Heathrow faced delays up to
nine hours as the effects of the
French air traffic controllers' group, has taken the 237,000 sq
dispute continued. One flight for Corfu finally left Glasgow after
a 25-hour delay.

Endeavour Resources.

Evidence:

FYIDENCE THAT Bank of wrest from Bank of America a were inadequate. These should America, a major shareholder in credit report it prepared on be increased by almost six times the London-based Bank of Credit BCCI Holdings (Luxembourg) to \$17m.

and Commerce International, SA, the parent company, last was critical of BCCI's manage-autumn which it expects will practice of making substantial development in the biggest including loan loss provisions—not competent to run an has been presented to a U.S. American bank.

BCCI had engaged in the practice of making substantial including loan loss provisions—not competent to run an has been presented to a U.S. American bank.

BCCI's reali estate loan porttourt.

We have trom Bank of America a were inadequate. These should America, a major shareholder in credit report it prepared on be increased by almost six times the London-based Bank of Credit BCCI Holdings (Luxembourg) to \$17m.

America, a major shareholder in credit report it prepared on be increased by almost six times the London-based Bank of Credit BCCI Holdings (Luxembourg) to \$17m.

BCCI had engaged in the practice of making substantial many years.

BCCI had engaged in the practice of making substantial many years.

NEW YORK, August 30.

ANNUAL STATEMENTS

36-37 36-37

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Base Lending Rates 3
UNTERIM STATEMENTS
BOC International For latest Share Index 'phone 01-246 8026

China and Hong Kong in joint property deal

BY ANTHONY ROWLEY

CHINA is to be the majority partner in a joint property development venture in the New Territories of Hong Kong, worth more than £100m.

The deal, which involves the Hong Kong Land Company and Jardine, Matheson and Co., is the latest, and in some ways the most significant, of a series of capitalist ventures in which China has become involved here recently.

Because the deal is long-term, it is seen as an indication that Peking is ready to see Hong Kong remain as a British colony well past the expiry date of Britain's lease on the colony, which expires in 1997.

China's interest in the new man of both Hongkong Land and Building is forecast to begin in 1981, with completion in 1983.

Hong Kong Land and Jardine Matheson will be minority partners in the venture, it is corporation here, will develop believed with 5 per cent each, while Kiu Kwong, which is a the township to be built on the Peoples Republic of China-contourned in 1888 transit trolled company incorporated in Railway depot in Tsuen Wan, in Hong Kong, and Sun Company, which has "close ties" with the New Territories.

The 98-year Crown lease on the China and is also Hong Kong, and Sun Company, which has "close ties" with the Imperial Chinese majority partners.

Government in 1888 is due to Edina and is also Hong Kong, and Sun Company, which has "close ties" with the Imperial Chinese majority partners.

The precise form of corporate elaims not to recognise the agreement has not yet been defined, went entered into by a former but a Mass Transit Railway regime the expiry date has logal spokesman said that profit-shar-regime the expiry date has logal in gotween the corporation and the developers was likely to be here.

The Bank of China and

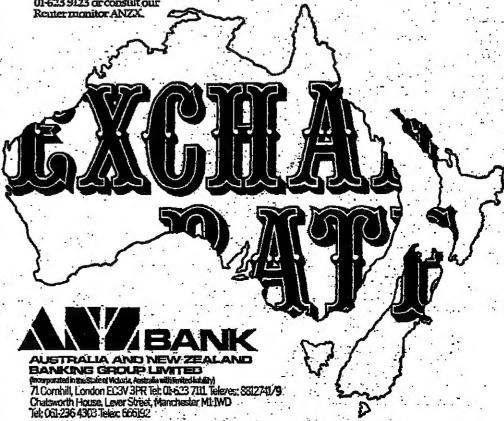
NEW YORK, August 30. The development will be the provided entities are to ment Corporation and the Sun of the U.S. was rising to the contrary. Curried is an operative transvork for company takeover. Union leaders see the ramidistic of multi out of Europe and the sense were expressed that without strict guarantees to pull out of Europe and the sense of the contrary. Chryster plants in the contrary the contrary the contrary the contrary the contrary the contrary. Chryster plants in the contrary the contrary the contrary that the c Sithole adamant Per. Nichalantal Sithole, one control was control of the property of the control of the contro

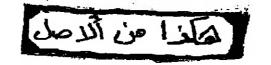
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Hexbility is our keynote throughout. Keep up to date with the latest in Australasian currency markets by ringing us on 01-623 9123 or consult our





U.S. court will try **Tempelhof** hijacker

today faces trial by 2 U.S. court in Bertin. Tempelhof is a U.S. Air Force bas sin the American sector of the city.

The Alizeker is likely to given a stiff prison sentence, as in the Lord Feedo.

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The Alizeker is likely to be given as the state as the maximum to white his large same time it is campaigned to the stiff to the likely to the stiff to the s airliner to the city, and a British court tried a West Berliner who shot a Soviet guard at the Russian war memorial in West

West German officials are relieved that the aircraft involved in the latest incident landed in Allied-controlled West Berlin and not West Germany The Bonn Government has com-under beavy criticism from Czechoslovakia for refusing to Czechoslovakia for refusing to DUTCH EMPLOYERS' organisa-tions have warned of the dangers tions have warned on the dangers tions have warned unions

many.
The hijacked Soviet-built TU.
134 of Polish Airlines took off from Warsaw and after a stop
Unemployme

being withheld by the U.S. authorities, is said to be in his programme would only thirties. He drew a pistol and solution more difficult.

waiting police. Seven other East Germans have chosen to stay in West Berlin, and are being housed at a refugee camp. The remainder of the passengers, mostly East Germans, have been mostly East Germans, have been returned to Kest Berlin. returned to East Berlin. ward no alt Reuter adds from Stockholm: NCW said.

DUCELLIER TAKEOVER BID

Lucas urges link with Peugeot-Chrysler deal

THE LUCAS motor component It will then be in a position to Government's efforts to create a Establishment of a joint home parish in the Auvergne) concern has seized on the projudge what weight it should give French component industry of electrical components concern and develop French exports of the European the affair in assessing its own international dimensions. Ferodo itself is apparently interests of Chrysler by the attitude to the Peugeot-Citroen group to press agreement with Chrysler.

The British company is in a described its situation. In the finite middle between he two authorise its seven-month-old raised the Lucas problem with big European groups of Lucas 1, 1922 describes its willingness. By Leslie Collit

By Leslie Collit

Peugeoi-Citroen group to press agreement with Chrysler.

BERLIN, August 30.

AN EAST GERMAN who hijacked a Polish airliner to West Berlin's Tempelhof Airport today faces trial by a U.S. court the French component maker Ducellier.

While the British Government to which it will become the man agreement with Chrysler.

British officials have already in the middle between he two authorise its seven-monthold raised the Lucas problem with project to acquire the 51 per cent their opposite numbers in the stake it does not already own in Anglo-French industrial co-today faces trial by a U.S. court the Giscard d'Estaing-Callaghan in Berlin. Tempelhof is a U.S.

While the British Government to agreement with Chrysler.

Lucas it will become the man insisting that it should control in the middle between he two authorise its seven-monthold project to acquire the 51 per cent their opposite numbers in the stake it does not already own in the Giscard d'Estaing-Callaghan in Berlin. Tempelhof is a U.S.

While the British Government to agreement with Chrysler.

Lucas it will become the man the middle between he two authorise its seven-monthold project to acquire the 51 per cent their opposite numbers in the stake it will become the man the middle between he two authorise its seven-monthold in the middle between he two authorise its seven-monthold project to acquire the 51 per cent their opposite numbers in the stake already in the middle between he two authorise its seven-monthold project to acquire the 51 per cent their opposite numbers in the stake already in the middle between he two authorise its seven-monthold in the middle between he two authorise its and Bosch.

In an attempt to reach a complete the man the middle between he two in the middle between he two in the middle between he two is such in the middle between he two is such in the middle to the

Conservatives

da Costa team

criticised Sr. Alfredo Nobre da Costa, the new Prime Minis-

A party statement assued after the swearing-in of the

new Government by President

Ramalho Eanes confirmed that

the fate of Sr. da Costa and his

they accuse him of having

Conservatives, who were absent

the Labour Minister, and Sr.

Acacio Pereira Magro, Social Affairs Minister.

angered by a statement rester-day by Sr. da Costa indirating

incompatible with democracy.

The Socialists have already

programme to Parliament

A bomb exploded yesterday outside the entrance to Rome's main anti-fascist war memorial,

The conservatives are also

team remains in the balance. Only last week the Conservatives were the first to warm to Sr. da Costa's nomination. Now

denounce

Pay, prices and profits frozen in Denmark *

No changes are planned in either wage restraints slick.

Mr. Joergensen confirmed that LISBON, August 38,
PORTUGAL'S Conservative
Party (CDS), whose disagreement with the Socialists led to the collapse of the Soares Government last month, today

Vicara.

and vio

Margrete, currently visiting Greenland.

Mr. Henning Christoffersen (38), the Liberal leader and an economist with no experience of foreign affairs, becomes Foreign Minister. Other leading Liberals in the Cabinet include Mr. Anders Andersen as Minister for the Economy and Taxation, Mr. Arne Christiansen, chairman of the powerful parliamentary Market Affairs Committee, as Minister of Commerce, and Mr. Niels Anker Kofoed as Minister of Agriculture.

The Social Democrats retain Mr. Knud Heinesen as Minister of Finance, and Mr. Poul Soegaard as Minister of Defence. No changes are planned in either

Mr. Joergensen confirmed that

Mr. Joergensen confirmed that

Mr. Joergensen confirmed that

defence or foreign policy as a result of the formation of the plans to build a bridge across the new coalition.

At a news conference this will be dropped, but said that afternoon, the Prime Minister construction of a distribution stressed the contribution which network for Danish North Sea the coalition can make to natural gas will go shead.

W. German Cabinet fails to settle payroll tax row

BY ADRIAN DICKS

THE West German Cabinet put are intended to come into force THE West German Cabinet put are intended to come into force the finishing touches today to the on January I, 1979.

DM 12.25bn package of stimulatory measures which it decided age pension contributions will in broad terms at the end of be raised, and child payments July, in compliance with its further increased, on January pledge at the Bonn world a l. 1980. Part of the overall economic summit meeting.

In spite of long hours of discussion, however, Chancellor raising the tax burden appreciably from personal to indirect taxes will be met by raising the standard rate of the succession. The spite of long hours of discussion, however, Chancellor raising the standard rate of the succession appreciably from personal to indirect taxes will be met by raising the standard rate of the succession.

that his Government, far from acting as a stop-gap Administration, was prepared by carry out major policy decisions. The conservatives say the "absolute and limitless" character in which the tax cut measures and local authorities for the will be presented to Parliament this autumn are likely to run into influential opposition from the Chancellor's own Social Democratic Party in several major states, as well as from the Christian Democratic opposition.

The main features of the state and local authorities to assumed by the new Cabinet is: declared their aversion to an administration of political inde-portents and technocrats

Against this background of discontent, Sr da Costa has less than two weeks before he has to present his Government's The main features of the

leagues were not able finally to from July 1, 1979.
resolve the jucreasingly shrill While most of these provi-

domestic political row over their sions have not been changed plan to abolish the payroll tax from the July 28 original draft. levied on businesses by some the Cabinet and the kinance As a result, the overall Bill their brains to devise a formula in which the tax cut measures will be presented to Political and the cinemate the states will be presented to Political and the compensate the states will be presented to Political and the capital and the cinemate the states will be presented to Political and the cinemate and the cinemate the states and the cinemate the ci

package, already fixed in July, accept a complex deal to com-are a DM 10.7bn reduction in pensate for the DM3bn hole in are a DM 10.70n reduction in pensate for the DM30n hole in personal income tax through their revenues that would be higher basic allowances and left by abolishing the payroll reform of the "tax trap" that tax. The SPD-FDP—governed catches medium income earners, state of North Rhine—introduction of a DM 9,000 tax. Westphalia, which would be free allowance for family hardest hit by the reform, is support, and increased child however showing no inclination allowances. All these measures to compromise.

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Section 1985

Bonn spy claim inquiry

BY OUR OWN CORRESPONDENT THE PERSONAL aide to Herr involving the aide, Herr Joachim

BONN, August 30.

Egon Bahr, business manager of Broudre-Groeger. No charges the West German ruling Social bad been made and Herr Democrat Party (SPD), is under Broudre-Groeger, aged 34, reinvestigation following allegations of spying in Bonn made the SPD statement followed a by a high-level Romanian defector to the West.

An SPD spokesman said today Government official who vanished

that "vague statements" had been made by the Romanian which could be interpreted as Government official who vanished earlier this month in Cologne, had passed information to the CIA about espionage activity in Bonn,

Metal industry wage costs rise COLOGNE, August 30.

WAGE COSTS in the West Ger- and high wage costs are harming man metal industry rose by the industry's international comthis year, against 3.5 per cent a jobs. this year, against 3.5 per cent a jobs.

year ago, while productivity rose by only 0.5 per cent in this trend in costs, that prices are period, the metal industry employers association Gesamtmetall a 2.4 per cent rise in the first half against a 4.2 per cent rise that unsatisfactory productivity Reuter

WARWICK WRIGHT Your Chrysler Dealer for: * Fleet Sales * Contract Hire Alpine, Avenger, 180/2 Litre. Simca, Sunbeam - there's one right for you. We have the range, we give the service. Plus the reassuring cover of the Protector. Write or contact Len Smith for further details. Warwick Wright Motors, Ladbroke Hall, Barlby Road, London W10. Tel: 01-969 3232. Address MTO1 -

Dutch warned of need for

spending cuts

of Government plans for spend-

ward no alternative solution, the

Rester adds from Stockholm:
A Croatian nationalist lawyer sought by Yugoslavia on terrorism charges has fied West Germany and asked for political asylum in Sweden. Mr. Damit Pctric, aged 29, is one of eight Croatians whose extradition from West Germany was requested by Belgrade after Yugoslav police geized four suspected West Germany aroban guerrillas earlier this year.

In an interview with a Swedish newspaper today Petric said be was vice-chairman of the Groatians whose extraditions of criminal activities as absurd.

NCW said.

Commenting on the unions have decided to call a strike of all astrike of all astrike

Minister, said that support for workers in the Cadiz region who narrow sectoral and short-term can find no employment, and the Figure 11. Fig. 3. published daily except Sun-days and holidays. U.S. subscriptions \$205.00 fair freight! \$365.00 (are shall) per assume. Second class produce past at New York, N.Y. achieve economic recovery. interests would harm efforts to

Mauritanian minister in Madrid

THE MAURITANIAN Foreign tanians tentatively suggested an Minister, Mr. Ould Mohammed initial compromise whereby Politizated settlement. But the Mauritaphdaf, begins a three-day visit sarlo be allowed to contro, that tanian Government is understood here today as part of the new part of the former Spanish Mauritanian Government's colony at present in Mauritanian efforts to achieve an end to the hands. conflict in the former Spanish

of Polish Airlines took off from Warsaw and after a stop at Gdansk on the Baltic was due at Shoenefeld Airport, just out side East Berlin. Instead it landed an hour later at Tempelhof.

The hijacker, whose name is being withheld by the U.S. authorities, is said to be in his hirtites. He drew a pistol and

can find no employment, and the general level of unemployment there is now believed to be more

BY OUR OWN CORRESPONDENT

At the same time, President

THE MAIN trade unions have than 16 per cent of the active months. Cadiz has been the

tiaited settlement. The Mauri-tanians are said to feel that their conflict in the former Spanish
Sahara.

At the same time, President reluctance to continue the armen Houphouet Boigny of Ivory strongle against Polisario will Coast has been attempting to gradually isolate King Hassan sions on the future of the former idea of a summit between the volvement less easy to sustain countries directly involved in the on the diplomatic front.

authorities, is said to be in his threatened to kill a stewardess unless the pilot changed course to Tempelhof.

The man was first off the plane when it landed, together when it landed, together with a young woman and a child. He handed his pistol to waiting police. Seven other East to the plane when the plane when it carried out in full, Mr. Van waiting police. Seven other East to the plane when the plane when it carried out in full, Mr. Van waiting police. Seven other East to the plane when the plane when it carried out in full, Mr. Van waiting police. Seven other East to the plane when the plane when it carried out in full, Mr. Van waiting police. Seven other East to the plane when the plane when it landed his pistol to waiting police. Seven other East to the plane when the plane when it landed his pistol to waiting police. Seven other East to the plane when the plane when it landed his pistol to waiting police. Seven other East to the plane when the dealors the precations which against strong resistance from the page tast in public, both the idea of against strong resistance from the page that the page tast in public, both the idea of against strong resistance from the page that the page tast in public, both the idea of against strong resistance from the page that the page that the page tast in public, both the idea of against strong resistance from the page that the page tast in public, both the idea of against strong resistance from the page that the idea of against strong resistance from the page that the page tast in public, both the idea of against strong resistance from the page that the page tast in public, both the idea of against strong resistance from the page tast the page tast in public, both the idea of against strong resistance from the page tast in public, both the idea of against strong resistance from the page tast the page t

formed a Government to the left of the Socialist Party. The from yesterday's swearing-in, regard three new ministers as pro-Communist: Sr. Carlos Correia Gago, the Foreign Minister, Sr. Antonio Costa Leal, Strike called over Cadiz jobless

(£38,500) is now needed each possible when weakness of public day.

The strike is intended not only powers and contempt for the law

unemployment in the area and obtain more funds but to persuade the authorities that the scheme should cover employ last Monday of two policemen ment for a six-day week and in and two members of the paraclude those under 18 years old military Civil Guard in separate other parts of Andalucia are almost as seriously affected by unemployment. In the Granada The extremist group GRAPO region for instance there are hes claimed responsibility for Rome bomb blast

the Fosse Ardestine caves, where German troops shot 335 Italians in a reprisal killing in 1944, Reuter reported. The heavy iron gates to the caves were badly damaged in the explosion, but there were no casualties.

to draw Government attention to Spain."

region, for instance, there are has claimed responsibility for 20,000 unemployed agricultural two of the murders, and police workers of whom only 9,000 are suspect that ETA, the Basque

covered by public works special separatist group, was responsible employment. In the past six for the others.



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China may sell crude oil to obtain U.S. equipment

BY DAVID BUCHAN

CHINA is considering selling exploration and production a time when the Carter Adminiscrude oil as a means of paying equipment it hopes to buy from tration is keen to improve for the purchase of offshore oil one or more U.S. oil companies, relations with Peking, equipment, which it is discuss. But they also pointed out that equipment, which it is discussBut they also pointed out that,
ing with four U.S. oil companies. while China had for some time The four companies invited to sold limited quantities of refined Peking for talks this summer are petroleum products to neigh-

Peking for talks this summer are Phillips. Exxon. Union and Penzoll.

Of crude they could offer would countries, the amounts bouring countries, the amounts bouring countries, the amounts bouring countries, the amounts of crude they could offer would countries that a fifth U.S. be marginal to the needs of both oil company, Gulf, had actually the U.S. and U.S. oil majors. been offered a quantity of Chinese crude production Chinese crude were today denied. A Gulf spokesman said that no last year. Quite apart from such offer had been made, growing domestic needs. Peking was known to be is also committed by its agreethem to increase its oil exports, and that the company had in year to Increasing its sales to that country from 65m tonnes for the Russians.

Both Mr. James Schlesinger, the Energy Secretary, and Mr. Spigniew Brzezinski. National Security Adviser, are reported to be urging the White House to reconsider its decision on the oil drilling plant sale by the Texan coll offer would offer would offer would country from 65m tonnes with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue, and, on security grounds, the sale should not go ahead while current tensions with Moscow continue.

Nicaragua strike spreads and violence intensifies

yesterday and to-day showed that many shops had shut down, that many shops not share of them violence in Nicaragua come on having told their employees to the heels of a highly successful stay home until next week. A guerrilla attack last week, in number of businessmen are which the Sandinist Liberation offering workers food or partial front took control of the Congruence results.

to stay on the job. Most Nicaraguan industrial through various members of the concerns, however, have not yet family since 1933, rode out a joined the strike. If this sector general strike earlier this year, moves to support the anti-Somoza but is currently facing the action, much of the national economy would be shut down.

At the same time, bands of have died in pitched battless.

Youths wearing masks or nylon overnight into its fourth day, the stockings over their heads patrol town was described as a battle-town between the streets of the two towns, firing shots or throwing homemade bombs at soldiers and we are still carrying them to police. Exchanges of shots occur their relatives," according to the almost daily between troops and local Red Cross Chief, Sr. anti-Somoza forces in a number Eulogio Reyes, "So far we have of other Nicaraguan towns and moved 10 dead, but there are clites, including Jinotepe, Leon, more, as well as wounded."

A NATIONAL strike, initiated in Nicaragua five days ago in order of being fired on. and many to press General Anastasio of being fired on. and many of a ban on the Dresser deal regard of similes who support the Somoza into resigning the families who support the Somoza into resigning the families who support the Somoza into resigning momentum after a slow start.

Although public transport, banks, petrol stations and hotels continue to function, a four of shopping centres in Managua yesterday and to-day showed

small bombs.

The strike and widespread

he strike.

people hostage. The Somoza
Reports from the provinces regime, the target of sporadic, indicate that adherence to the violent protests for almost a year anti-government strike is even now, made humiliating conces-The government white seek- administration allowed them to ing to play down the protest, has leave the country safely, along obliged government workers, with a group of newly-released employees in essential sectors political prisoners and \$500,000 and foreign and domestic banks in ransom.

The Samuera regime in power.

o stay on the job. The Somoza regime, in power Most Nicaraguan industrial through various members of the

At the same time, bands of have died in pitched battles anti-Covernment protesters in between anti-government denonthe towns of Matagalpa and strators and the National Guard Esteli have taken control of the in Matagalpa, eye-witnesses said downtown areas and are meeting today. They said that the air only sporadic resistance from force bombed the town yester-Government troops stationed day before an assault by crack there. ere. As fighting continued Youths wearing masks or nylon overnight into its fourth day, the

Peru emergency declared

THE PERUVIAN Military of trying to disrupt law and Government took another step order and worsen the national towards a confrontation with economic crisis. The Govern towards a confrontation with economic crisis. triking miners today when it Peru \$2.5m a day in foreign

the end of a cabinet meeting tain payments on its foreign said that the central Andean debt.

provinces of Huanco, Junin. Miners are insisting that some Pasco, Huancavelica and 320 union militants fired over the Ayacucho were placed under a past 18 months be re-instated to state of emergency and constitute their jobs. But State and pri-

put five more mining provinces under a state of emergency.

An official statement issued at every dollar it can get to main-

tional guarantees suspended. Two vately-owned mining concerns other provinces were put under have remained adamant in their a similar regime last week.

It accused unnamed elements Reuter

MEXICAN ECONOMY

The oil that soothes but also irritates

DESPITE HUGE oil reserves in Mexico the cancers which have eaten away at the economy for years are still afflicting the country.

The shar pincrease in the oil reserve estimates has restored Mexico's international credit rating. Its \$26bn forcign debt scems certain to be whittled down, But, despite the oil-based down, But, despite the oil-based balm, the private investment needed to create jobs continues to lag, Mexican workers are raising their wage demands and calling for more and longer strikes, of the confederation of Mexico is among the most. Of all the ills, unemployment is worrying Mexicans the most. The government concedes that only about half of the work force in Mexico City is fully employed, and official statistics show that industrial employment in the nation dropped by 1.6 per cent last year, with no sign of a reversal in the first balf of 1978.

Sr. Alfonso Sanchez, a senior official in the Confederation of official statistics of the work force in Mexico City is fully employed, and official statistics show that industrial employment in the nation official statistics show that industrial employment in the force in Mexico City is fully employed, and official statistics show that industrial employment in the nation official statistics.

Sr. Alfonso Sanchez, a senior official in the Confederation of official statistics.

ing their wage demands and calling for more and langer strikes, the population growth defies solution, and farm problems persist.

It is becoming clear, in the words of a U.S. State Department economist, that "the problems of Mexico will not be solved by oil, and its major problems may well be worsened by it."

Indeed, adds a Commerce Department analyst in Washington. "there is a growing school of thought that oil could be harmful to Mexico now. It provides an excuse, a crutch, not to solve the basic structural problems."

However, Mexico has plenty of

different picture. The age that success to acceptance by pattern of the population of 64m educated people and express—almost half under 15 years of little hope of convincing the age— is matched only by masses.

countries like Pakistan and AP-DJ

the basic structural problems."

However, Mexico has plenty of by 2,000. This surge—due to a oil to sell. Probable reserves are estimated at 31bn harrels and low death rate and a relatively estimated at 31bn harrels and low death rate—is the worst possible reserves at 120bn problem, and the one least Among other things. President soluble by oil money. After José López Portillo is expected decades of governmental urging to announce another sizeable of the populace to reproduce, increase in reserves during his initial official efforts to promote another sizeable of the populace to reproduce, increase in reserves during his initial official efforts to promote address on Friday.

But other comparisons paint a population is expected to double by 2,000. This surge—due to a bigh birth rate and a relatively constitute and the one least decades of governmental urging of the populace to reproduce, initial official efforts to promote success in the past couple of years. But most experts credit But other comparisons paint a years. But most experts credit

Pressure on Toyota for U.S. plant

NEW YORK, August 30.

Meanwhile, there are still reported rumblings of serious discontent among some senior Administration officials about It is not clear why the port

There was no indication of how President Carter, now heading back to Washington from his Western holiday, might react to these arguments. But proponents inside the Government of

on security grounds, that the inclusion in the Dresser deal of an ultra-modern \$1m electronic

welder is unwise.

By John Wyles

A TEAM from the New York and New Jersey Port Authority is to visit Japan next month in a bid to persuade the Toyota Motor Company to baild an assembly plant near Jersey

authority is doing so, because Toyota is insisting that it has not even taken a decision in principle to manufacture cars in the U.S. A spokesman for the company in Califronia said to-day that Toyota had examined no potential sites in the U.S., nor had it invited the ority to submit proposals. Japanese car prices have

become increasingly unstable in the U.S., because of the steady appreciation of the yen against the dollar, and many motor industry observers ex-pect Japanese manufacturers eventually to start assembling cars in the U.S. in order to preserve their market here. Honda has taken a decision in Honda has taken a decision in principle to build a plant along-side a motor-cycle assembly plant which it is building in Ohio. Missau, which is the second largest importer into the U.S., is completing a feasibility study on the possibility of manufacturing here.

Toyota, on the other hand, has been more reticent on the subject although it acknowhave been going on within the

NY newspaper hopes rise

on the New York newspaper the pressmen's union, appears to papers claim that overmanning the providing some basis for has produced a cost burden negotiations.

The pressmen's union leaders to publishers and union leaders to cortinue talks which began which is preventing them from continue talks which began which some talks which began which some talks which began which some talks which began the first state of the source of the sour

today the fact that a proposal area.

A CLIMMER of hope was cast began which, though rejected by ning by about half. The news

A federal mediator, Mr. had been made and said that his Kerneth Moffet, has called the union woud counter with its own sides together on several proposal today. The pressmen's were refusing to cross the pressment were refusing to cross the pressment of the three men's picket lines and whose to a strike than last week. New York's three daily newspapers, the New York contracts expired at the end of daily newspapers, the New York contracts expired at the end of the hitherto contacts have New York Post stopped work proved increasingly inconsequential. However, the Publishers unliaterally posted reduced manning levels. They are seeking a new three-pister days to a strike than last week. When the publishers unliaterally postability that the publishers will have to reach settlements will have to reach settlements together, at which point the two parties will have to the analyse of pay and job security.

mediator named By Our Own Corresponder

Post row

NEW YORK, August 30. THE FEDERAL Mediation and Conciliation Service has named Mr. James Healy, a Harvard professor, to mediate in the postal dispute which is still

have to decide the issues him-These talks, which were agreed on by both sides to avoid the possibility of a strike, are expected to start by the end of the week.

two parties will have 15 days in law to thrash out the main issues of pay and job security. If at the end of 15 days there

is still deadlock, Mr. Healey will

Merrili Lynch talks

Merriti Lynch is holding pre-liminary discussions on acquiring Huntoon Paige, a mortgage hanking and brokerage firm, Reuter reports from New York, If the acquisition is completed, Huntoon Paige would become part of Merrill Lynch Hubbard,

U.S. COMPANY NEWS

Chrysler looks for 10 per cem rise in new car sales: FTC probes Chemetron gases sale: Japanese stake for Data Genera

Carter to lobby for natural gas Bill

PRESIDENT CARTER, who left on his vacation 12 days ago sional approval of the gas pricing complete thinking he had finally achieved in gas pricing complete thinking he had finally achieved in gas pricing complete thinking he had finally achieved in gas pricing complete thinking he had finally achieved in gas pricing complete thinking he had finally achieved in gas pricing complete the today to call said chances of Senate passification officials will try to enlist the sage of the measure hinged on support of various interest plan.

There are doubts, inside the the voice of about two dozen groups and urge them to lobby Senators still uncommitted on Congress on the White House's in the same with dent will succeed in persuading the controversial gas Bill. The and the whole thing rests with dent will succeed in persuading the controversial gas Bill. The measure would deregulate the dent Carter will try to convince natural gas Bill. Some key vacable price of newly discovered those uncommitted Senators that economic officials, including Mr. among other reasons.

"It's going to be a tough, close fight but we remain cantiously optimistic," one President intends to do his lobby- win support for the Bill.

White House official said yester- ing in two basic ways. "He will AP-DJ"

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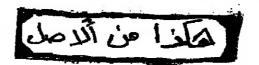
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OVERSEAS NEWS

Sithole takes tough line against all-party talks

THE RHODESIAN nationalist reason for an all-party con-bound to come to an end before leader, the Rev. Ndabaningi ference is to wreck our agree- the year is out. Sithole, today declared his ment and we are not prepared to Most observers regard Decemoposition to new all-party where our agreement," he said, ber elections as an impossibility peace talks on Rhodesia and Mr. Sithole, one of three black and believe that Salisbury will asserted that one-man, one-vote leaders who joined with Mr. Ian be forced to attend all-party elections must go ahead before Smith, the Prime Minister, in the talks.

Transitional Government in Meetings held in tribal areas. the end of the year as planned Transitional Government, in Meetings held in tribal areas in the country's internal settle-sisted that December elections by Government Ministers in the ment.

Would be held. "Elections past few months have drawn tiny

3m black voters turned out at Mr. Sithole ducked or ignored guerrilla infimidation. the elections planned for Decem-reporters' questions on how an Another of the black leaders ber, the country would have a election could be held when some in the transitional Government, black majority Courses and Chief Jeromiah Chief.

Speaking at a Press confer- according to the Salisbury agree- audiences. Some meetings have ence. Mr. Sithole said that if ment must be held or else there had to be scrapped because no unity one sixth of the estimated is bell." he declared.

One turned up. Officials blamed

plack majority Government.

7,800 guerrillas throughout the Chief Jeremiah Chirau, has, in flights and before 500 cheering the polls.

Smith and Bishop Abel Supporters Mr. Sinhor Area of the polls. officials and before 500 cheering supporters. Mr. Sithole took his toughest line yet against the British and U.S. plan for an all-party conference involving Rhodesia's Transitional Government and the Patriotic Front Gaerrilla alliance led by Mr. Joshua Nkomo and Mr. Robert Mugabe.

"We are satisfied that the polls.

"We are satisfied took his 'He accused the foreign Press during the polls.

"He accused the foreign Press during the polls.

"Auxorewa have said they will go if it is in the national interest.

Mr. Sithole echoed the anger of other local black leaders at recent praise of Mr. Nkowo by Dr. David Owen, Britain's Foreign Secretary. "If Dr. Owen with the transitional Governies so loyal to Mr. Nkomo, then must crown him not King Sithole said: "Nothing has gone of Zimhahwe, but King of wrong. We know the war is Britain," he said.

Shah faces demand for return of exile

South Africa and South-west Africa. The prisoners were taken in late 1973 and early 1978 during South Africa's involvement in the Angolan civil war.

Meanwhile, about 100 refugees trying to escape from fighting between Government forces and Unita rebels in the southern Angolan town of Calais, were reported to be stranded on the Angolan side of the Kavange river

Vorster in hospital

Following reports in Tehran have been unthinkable in the newspapers yesterday that the very recent past. The ayatollah new Prime Minister, Jayfar was exiled in 1963 after opposition to contacts with Khomeini, the give women the right to stand in Government was advised to elections, issue calegorical denials of any Meanwhile. China's Chairman contacts. Yesterday's evening Hua today began the first full papers printed a report with day of his three-day state visit prominent pictures of the to iran.

Ayatollah, the first to appear in Oliscussions were held between public in 15 years. They were Chinese and Chairman Hua held a private papers and plastered over walls meeting lasting more than half

trict of Tehran.

aneous.

appear anywhere in public would
Following reports in Tebran have been unthinkable in the

papers and plastered over walls incetting lasting more than half and windows in the bazaar dis- an hour with the Shab. arici of Tehran. The delegations are under-After the new Prime Minister's stood to have discussed the

and bronchitis. Reuter reports assertion that his Government ironing out of details of two from Pretorin. He was admitted would permit political freedoms agreements on cultural and to the Tygerberg hospital in Cape offered in the Iranian constituscientific co-operation. The two check-up and will remain in political parties would be formed cussed security in the Gulf.

control regulations.

Conscilite of Rennies Consolidated Holdings, was fined R10,000 (25,800) in the Rand Supreme Court, Johannesburg yesterday, A SECURITY drive by Syrian tions with Syrian leaders. To control regulations, in northern Lebanon has munique by the forces conscipulations. Reuter reports. He was convicted on Tuesday.

Kenva rehearsal

A full dress rehearsal was held yesterday for the funeral today of President Jono Kenyatta of Kenya, Quintin Peel reports from Nairobi. The coffin will be borne from State House to Parliament on the gun carriage used at Sir Winston Churchill's Juneral. Contractors have been working every night for a week to complete the mausoleum

Troops of the Arab peace-aceptus annual troops of the Arab peace annual troops of the annual troops of the annual troops of the annual troops of the arab peace annual troops of the annual troops of the annual troops of the arab peace annual troops of the arab peace annual troops of the annual troops of the annual troops of the arab peace annual troops of the annual

WORLD TRADE NEWS

Japan plans drastic cut in air fares

Quality

in Chinese

PEKING, August 30.

CONCERN ABOUT the quality

of Chinese industrial products has brought a significant organisational change in the nation-wide machinery-building

orders have gone out from

the central government's first Ministry of Machine Bui'ding for the rationalisation of factories and production methods to ensure specialisa-

tion and efficient co-ordination. The ministry is responsible for the manufacture of arm

machinery and motor vehicles. Provincial authorities throughout China have been told to set up specialised com-panies and consolidate manage-

ments, re-group factories according to their products, and raise the technical quality of manufactured goods. Machinery plants are now widely scattered under diffuse

widely sextlered under diffuse management. Most operate inefficiently because they attempt to integrate all processes from forging to parisprocessing and assembly. Competition for materials and markets has led to wasteful production delays, poor quality and high costs.

and high costs.
The industry's reorganisation

means that provinces in north-west China will be responsible for building 50-up tractors and

northern China centres will manufacture the 55-hp model. Eight co-ordinated motor vehicle plants will be set up and affiliated with nearby fac-

tories producing specialised In Peking, 147 autonomous

brought together under the

city's new machinery industry department. Twenty group companies have been set up to co-ordinate supplies and pro-

The new China news agency, reports that the nation-wide reorganisation of the industry

would take from three to five The change in the industry's structure will overcome the growth-stunting effects of excessive "self-reliance" which became China's preoccupation during the "great leap for-ward" of the 1960s. Small, self-contained and inefficient back-street factorics mush-

The official newspaper the

Mr. Chou tze-Chien, the First Minister of Machine Building, travelled to the commune, near Peking, to deliver his personal apology. He repaid the 15,000 year the commune had spent on one of the tractors and promised compensation for the repair of the

The minister admitted to the

farmers that some factories-were producing inferior machines.

others.

control

industry

New Soviet deficit with West

Thate

Scotti

campa

THE JAPANESE Government has made up its mind to propose a "drastic" reduction in international air fares out of Japan bought at the other end. and argues that yen-denominated to Japan bought at the other end. and argues that yen-denominated to Japan bought at the other end. and argues that yen-denominated to Japan bought at the other end. and argues that yen-denominated to Japan bought at the other end. The full tourist class fare costs must be matched against the from Tokyo to London is yen-denominated revenues if it introducing a system corresponding to the Apex fare on Allantic yanges are needed. The full tourist class fare costs must be matched against the from Tokyo to London is yen-denominated revenues if it introducing a system corresponding to the Apex fare on Allantic routes which would offer a 35 per routes which would offer a 35 per

(Parliament) yesterday that proposals to cut air fares would be who are paying the full fare have and lowering yen denominated in other curronties standard air fares out of Japan. It is deferred the International Air given up buying return tekens fares.

Transport Association (IATA) for journeys out of Japan Transport Association (IATA) for journeys out of Japan this autumn. IATA is likely to because of the savings involved an almost 50 per cent premium situation in which journeys to the saveral of its member airlines of the fare outside Japan. Japan japan is made worse by the fact on a new air fare structure which agents are ready to explain the out of Japan more into line with ask, but the unwary will be told custs in other parts of the world.

Prices of international air JAL, which until recently present converted from the dollar upholding the existing system, rate for the same journey if a estimates that it would lose up ticket is bought outside Japan to 40 per cent of its revenue.

Japan has nothing corresponding to the Laker Skytrain for lowever, it must be barne in tickets should nothing an exchange rate of from international passenger that whereas it is now possible system results in our parts of the world.

Si equals Y296, Since the actual flights if a simple switch were yendollar exchange rate is now made from the Y296 to the dollar of journeys out of Japan costing puting air fares.

Drive for

investment

Angola and S. Africa in PoW swap

ports from Cape Town.

The exchange is to take place with the help of the international Red Cross at a date to be an-

Arricant Seven South Arrican prisoners of war are held in Angola, while publicised information in South Africa indicates that a handful of Cubans and possibly a large number of Angolan Government troops are being held in South Africa and South-west

Vorster in hospital Mr. John Vorster, South Africa's Prime Minister, who is 62, is suffering from physical exhaustion

Rennies chief fined Mr. Charles Fiddian-Green, chief executive of Rennies Consolidated

South Africa and Angola are to exchange prisoners of war, according to an announcement by Mr. R. F. Botha, the South African police and demonstrators have for Iran's five ayatollahs (relicant from Cape Town.

BY MICHAEL TINGAT

WHILE CLASHES between and that demands would be made demonstrators have for Iran's five ayatollahs (relicant from Cape Town.

Campaign has been mounted places in Parliament. What was a mainst the Government by some not clear was the speed with the continued in the contin outcod.

At least seven South African in content who is the return from Iraq of Yesterday's Iranian papers, incapable of the content of the c Shah religious extremist com- opposition demands, both secular The campaign is partly and religious. orchestrated and partly spon- For a picture of Khomeini to

roomed all over China. People's Daily recently published an account of a commune's disastrous experience with three tractors it had hought

Lebanon deaths inquiry

from . inefficient The first tractor worked sporadically for a year before its faulty gearbox failed com-pletely. The second had its cylinder head fitted back-toimproved to 5.6 per cent (5.2 5.9 per cent, which would transper cent in 1977) and if they late into sales of just short of largard amongst France's EEC strain should notch up sales inflation rate. E3bn. allowing for a 10 per cent Britain should notch up sales inflation rate. OF around £2.49bn this year. Exports of crude moved from Denmark and Ireland. Last year, 11 sites outside the U.S., and its some £343m better than last year, a fairly negligible £10m in 1975. front and the engine seized the first time it was started. The third was so badly put

some E343m better than last year.

A fairly negligible £10m in 1975

However, this will not be to £92m last year, and were enough to close the trade gap, approaching £46m, at the half worth almost £7.5bn, while Italy took 9.6 per cent: Relgium/ balf of this year, compared with almost £250m for the same period of last year. Nonetheless, some £1.4 per cent of French sales to Britain were covered by transactions in the opposite direction, compared with less than 68 per cent in 1974, when the British market share reached its low point of £26.5cm agree a sheepmeat share reached its low point of £26.5cm agree a sheepmeat of multon and lamb to the highly against the frank. From £1 protected French market.

EEC can agree a sheepmeat of multon and lamb to the highly against the frank. From £1 protected French market.

French sales to British market of multon and lamb to the highly against the frank. From £1 protected French market.

French sales to British market of multon and lamb to the highly against the frank. From £1 protected French market.

French sales totatled £1m in 1975. Sale

some of their lost market share closer to 90 per cent.

In this jear.

The UK share of the French import market improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per cent, which would the some measure in the improved to 5.6 per cent (5.2 5.9 per c

UK recovers ground in France

THE SOVIET UNION built up a deficit for the first half of 1978 exceed the 1977 deficit, which trade with the West during the first half of 1977, a year in which the Soviet weekly Ekonomiches-kaya Gazeta. This was one of the worst results in recent years.

The sizeable deficit was particularly striking because it reversed the trend apparently implicit in the Soviet achievement of a 230m rouble (E175.6m) surplus in trade with the West months of 1977.

The figures' show that during the last six months of 1977.

The figures' show that during the first half of 1978 exceed the 1977 deficit, which the Soviet results in recent years.

The sizeable deficit was particularly striking because it reversed the trend apparently implicit in the Soviet achievement of a 230m rouble (E175.6m) surplus in trade with the West was made up by traditional Soviet surpluses in trade with the West during the last six months of 1977.

The figures' show that during the first half of this year Soviet imports of Western goods increased 9 per cent to a value of 5.9bn roubles (£4.12bn) during the comparable period of 1977.

The compared by property should be the first half of 1977 and the last six months of this year as they did in 1977: with the share of the Socialist countries of Western goods increased 9 per cent to a value imports of Western goods increase toward the end of a the first half of 1977 and the first half of 1977.

The compared by the trade out of total turn ower of R3.45bn.

With the need to purchase with the West was made up by traditional Soviet surpluses in trade with the Socialist countries and the Third World.

Tokyo next week as part of a new drive to attract forcugational Soviet surpluses in trade with the Socialist countries and the Third World.

The figures' show that during the first half of 1978. From the first half of this year soviet imports of Western goods increased 9 per cent to a value imports of Western goods increased 9 per cent to a value increase toward the end of a the first half of 1977 and the first half

the comparable period of 1977.

At the same time, Soviet exports to the West decreased to 3.9bn roubles (£2.98bn) in the still need to buy grain abroad first half of 1978 from a value of to feed cattle for meat production.

The prospects therefore are from 13 per cent in the first half of 1978.

The result was that the Soviet for 1978 annual deficit to far menths of 1977.

The comparable period of 1977.

Five Year Plan and despite the share of the Socialist countries to Uster.

Nr. Masson recently visited the Uster.

Nr. Masson recently visited the Uster.

The share of Third World countries also declined to 11.5 per cent in the first half of 1978 for investment in Northern from 13 per cent in the first six for 1978 annual deficit to far menths of 1977.

PARIS, August 30.

depreciation of the pound this autumn.

against the frank. From £1=

Fr 9.51 in 1975, it declined in from Britain, various cities in

from Dublin: The Ridge Tool Company of Uhin, in conjunction with the Industrial Development Authority, is to invest over £10m in a new plant in Cork to manu-

facture pipe-working Inols and

equipment for international

4.4 per cent of multon and lamo to the nighty squares.

If the figures are adjusted to protected French market.

Fr 9.51 in 1975, it declined in from Britain, various cities in make exports to France French strength continues to £1=Fr 8.53 in March of this Germany, lialy and Greece. In addition to its own facet of Boeings, £1 Al will have at its. disposal two BAC one-clevens hitherto used by Arkin, the

The re

Chedd

fights

awailing approval by the Minis-terial Economic Committee and

ITALIAN SHOE exports slumped ing slackened demand and grow- the January-May period this year from the year earlier and Italian makers, among the world's largest, again arged EEC quotas on Asian exports in order to prevent a further slump of their sales in the remaining months of the year.

Sig. Odoncre Mercatanti, director of the Italian Association of Shoe Manufacturers, told the annual assembly that the present situation was "worrying" follow
MILAN, August 30.

Milan, August 40.

Milan and Korea and Talwan are started, for a voluntary cut of their sales in the mational makers.

This will be the first time that the few approval is granted approval is granted

Woold Sign Mercatanti said

ALGERIAN DEVELOPMENT

Focus on hinterland

BY FRANCIS GHILES

to examining the results of the then gas will take over.

sible for its cropping patterns last four-year plan (1973-1977)
and while there is much to be gas, the emphasis will be on vegetable crops it produces).

meets some time this autumn, hard currency earners. Oil will vigorously pursued, not least in This year—proclaimed a "year remain Algeria's most lucrative the socialist agricultural sector of reflection"—has been devoted export until the early 1980s, and where each farm is now respont to examining the results of the then gas will take over.

satisfied with, a change of emphasis will be on Despite a slight shift in its of factories from sheer inefficiency (a number Despite a slight shift in its of factories from sheer inefficiency in 1976, agriculture was clency are working at about the poor relation in Algeria's last one-third of capacity) which two development plans. With population of 18m, and one of means ensuring better co-ordinal irrigation, it only accounted for the highest high rates in the

pass two sections and architecture in the state of possibility in the state of possibi

ALGERIAN planners are cur-pipeline under the Mediterranean link Algeria with Niger-and Mali rently taking stock. The third to Italy and a host of other pro-four-year development plan, due jeets) will remain the highest. A more balanced growth in the start next January, will prob- priorities if only because oil and regional terms will be helped by ably be submitted to the congress gas, until the end of the century. The decentralisation which the of the ruling FLN party when it will be by far Algeria's largest World Bank report says has been



EEC quotas against Asian shoes urged domestic airline. The El Al management is also

orested of the pitches of the pitche

Dr. Kurt Waldheim, endorsed the move for greater exchanges

ا هنگامن المعل

starts Scottish campaign

By Ray Perman,

MRS. MARGARET THATCHER the boycott. arrived in the Scottish Borders last night to begin a tour which where significant Tory gains are considered possible.

Although lagging badly behind Labour in the opinion polls, the Conservatives could profit from Scottish Nationalists and win back five or six of the nine seals lost to the Nationalists in 1974.

Also, in Berwick and East Also, in Berwick and East Lottian, vacant since the death of Professor John Mackintosh, This was the only suggestion of Professor John Mackintosh, Torgies belleved the committee's nine to sentence of the direction of the committee's nine to sentence of the direction of the direction of the committee's nine to sentence of the direction of

fessional party political broad-casts made for the Tories by Saatchi and Saatchi, Garland

Instead of an outright attack on Labour policies, the broadcast acknowledged that the Governmeant meant well and was full the SHARP rise in unemploy into the problems of adjusting nine months from last September meant well and was full that the lost two months the following concludes that if the would have started later and

mr. William Whitelaw, deputy leader, summing up the broadcast, said that the Labour Party was always talking about caring but talking was not enough.

It was a fundamental part of Conservative policy to encourage people to look after themselves for this reason the present rise in unemployment is thought. It was a fundamental part of Conservative policy to encourage people to look after themselves to the best of their ability, but to the best of their ability, but to be due largely to inadequate old or too sick were entitled to experience of the previous passion that we could give them, he added.

It was a fundamental part of Conservative policy to encourage trend. Sea fell by 2 per cent in July Average daily production during July was 1,092,328 barrels a day, compared with 1,114,155 to be due largely to inadequate seasonal adjustment and mirror the experience of the previous passion that we could give them, he added.

It was a fundamental part of Conservative policy to encourage trend. Sea fell by 2 per cent in July Average daily production during July was 1,092,328 barrels a day, compared with 1,114,155 to be due largely to inadequate seasonal adjustment and mirror the experience of the previous a day, compared with 1,114,155 to be due largely to inadequate seasonal adjustment and mirror the experience of the previous a day in June.

The drop in average production of the underlying from the UK sector of the North Average daily production during July was 1,092,328 barrels a day in June.

Total production in July was 5,002,328 barrels a day in June.

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Total production in July was 1,092,328 barrels a day in June.

Total production in

Thatcher | Lords urge changed attitude to boycott

deploring it. The coveriment for a Third Reading, because of should help by assisting trade from a Lords Select Committee, its potential damage to Arabpromotion, rather than by diswhich proposes sweeping changes British trade and the widespread in Government attitudes lowards hostility to it among British boycott.

The committee wants the Foreign and Commonwealth effectively opens her party's Office to cease authorizing election campaign in Scotland pregative certificates of origing where circuiffernt Tory pains are required by some Arab countries these documents tries, and calls these documents "among the most discriminatory U.S. Export Administration Act.
The Foreign Office has so far recisted wills for this bird restricted will for this bird restricted will be committed. resisted calls for this kind of

the Arab boycott while verbally send the Bill back to the Lords enterprise.

businessmen. future legislation if the measures proposed do not reduce the boycott's impact.

on the 1977 Amendment to the yesterday that the committee had been unable to draw con-

Lothian, vacant since the death of Professor John Mackintosh. This was the only suggestion on which the committee's nine achance of regaining the seat lost is October, 1874, when Labour's majority was 2,740.

Mis. Thatcher will spend most of comorrow in Rosburgh, Schirk and Peebles, sear of Mr. David Steel, the Liberal leader, where the Conservatives hope to overturn the 7,433 Liberal coverturn the 7,433 Liberal majority.

Richard Evans, Lobby Editor, The committee spent four Richard Evans, Lobby Editor, The Committee Richard Evans, Lobby Editor, The Committee Richard Evans, Lobby Editor, The Committee Richard Evans Richard Evans

THE GOVERNMENT is accused Byers, the Liberal peer, who was prospects, and companies are today of condoning some of the also one of its members.

The covernment of the courage and the courage are courage are courage and the courage are The Governmen

hostility to it among British

The Byers Bill was modelled of statistics to monitor the boy-chants.

In the 1977 Amendment to the cott, but otherwise information Sales could remain confidential. phrased, reflecting disagreements

writes: "The Conservatives can afford to care, Labour can't," was the theme last night of the third in the series of highly pro-

Jobless rise 'not so sharp'

Mr. William Whitelaw, deputy been a summer unemployment and summer unemployment hump " in 1976 and 1977 in the

meant meant well and was full of good intentions, but had not developed the resources to pay for improvements in social services, education and health care.

A related message was that since the war every Labour government had increased income tax, whereas every Contents made to eliminate spotents in made to eliminate spotents made to eliminate services, educated taxes while increasing social services.

THE SHARP rise in unemploy—into the problems of adjusting nine months from last September would have started later and have been less steep.

The Statistical Office says that would rise less sharply, if at all."

Statistical Office.

Separate adjustment would seven out the summer humps, of seasonal adjustment used by the Department of Employment.

Top Steel

Tinance man

Sea oil output falls

The article, which describes an in supplies from Shell/Esso's which takes the UK about half Today the Tories will launch a cinema advertising campaign.

The article, which describes an in supplies from Shell/Esso's which takes the UK about half investigation by the research Auk Field and Mobil's Beryl way towards reaching self-a cinema advertising campaign.



The real Cheddar fights its way back

SOMERSET has its own version of cheese lore: the origin of the Cheddar species, so the story goes, can be traced back to the interior of a Cheddar Gorge acre. On a summer day in the mists of time, it is said a young mists of time, it is said a young secured a firm niche in the UK Then the process somewhat large cooling tray, the where it sharpes through the spectacular for a produced Cheddar, selb itself on the process somewhat large cooling tray, the where it is although the start would the secured a firm niche in the UK Then the process somewhat large cooling tray, the where it sharpes through the spectacular for a produced Cheddar, selb itself on the process ware of the credit scheme of its total revenue from British town towns of the time of the market for a produced Cheddar, selb itself on the process ware of the credit cards they provide was that they township of the time of the credit cards they provide was that they consumer special credit card in the British Government's decision to transfer scheduled in the British Government's decision to transfer scheduled in the UK Isa this stage that the British Government's decision to transfer scheduled in the British Government's decision to transfer scheduled in the UK Isa this stage that the produced Cheddar produced Cheddar selb itself on the process was consumer special credit card in the British Government's decision to transfer scheduled in the UK Isa this stage that the produced the British Government's decision to transfer scheduled in the UK Isa this stage that the produced Cheddar in the UK Isa this stage that the process was exerted up to the local pigs.

Alreador Firm of the December of the credit card in the credit card in the produced the card in the process was exerted up to the local pigs.

Alreador Firm of the UK Isa this stage that the process was card the process as a result of introduce its are strongly and the produced the pr SOMERSET has its own version

facture of the nurty, densely market have tended to but Harrods. Textured cheese has spread against the limit of their, Milk The cheese-maker's day starts Blocks now account for 70 per around the world. The Canadians Marketing Board-imposed quota are particularly good at making it there is even a Chinese But, say the cure of makers' Association, met the Cheddar Farmhouse Cheddar Farmhouse Cheddar Farmhouse Cheddar Farmhouse cheese by week to discuss ways in which first the difference traditional methods within a 39- they might get in quota in passed through the passed through through the passed through the passed through the passed through the passed



In a full year the loss in the somewhere. But the fact there somewhere. But the fact is that in the world's family of cheeses. Cheddar is almost an infant.

Cheese has a history extending back at least to classical Greece when Olympic athlets trained on the goat's milk variety with its "presence" which can drop an or. Cheddar, on the other controlled in the some make not when Olympic athlets trained on the goat's milk variety with Somerset areas, two in Dorset thand, has been made in a the country-like autromodius the country-like a

Building material sales up 21%

businessmen.

But it has left open possible receiving boycott requests to the future legislation if the future legislation if the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures proposed do not reduce the distribution of the measures and the widespitation of the distribution of the measures are distributed as the distribution of the measures are distributed as the distribution of the measures are distributed as the distribution of the distribution of the measurement. This could enable publication Builders' and Plumbers' Mer-

Sales by builders merchants in the 12 months to the end of The proposal on withholding public funds is tentatively phrased, reflecting disagreements

The federation said that the

for GKN

MR. WILLIAM G. McLUSKIE,

Mr. McLuskie, who has special responsibility for BSC's Treasury operations, is one of three controllers responsible to Mr. Claude Osborne, the BSC director of finance, who in turn reports to Mr. Frank Holloway, the managing director for finance.

Iberia predicts

At the conference (from left): Mr. E. H. Boullionn, Mr. E. Rubython and Lord Beswick

French air chief attacks Britain over U.S. link

chairman and chief executive of the French Aerospaciale group, told delegates at the Financial signed a memorandum of under the third month in succession all regions have shown an improve ment.

"At this time of year one would expect an increase in building activity as contractors."

Chairman and chief executive of capability.

Last December, Lord Beswick order book stood at £1,500m. It now stood at £2,500m and was still rising.

However, four-fifths of the orders were for military aircraft and weapons and 69 per cent of the total was exported. British Aerospace wanted to improve the palance between the military and civil side.

Speaking on services the financial signed a memorandum of under now stood at £2,500m and was still rising.

However, four-fifths of the orders were for military aircraft and weapons and 69 per cent of the total was exported. British Aerospace wanted to improve the palance between the military and civil side.

Speaking on services of the contractors and civil side.

Lord Beswick believed it that any imminent decision by Routine four-hour flights over group to develop a fortiess commitment to future collabora- in the longer term.

air transport.
General Mitterrand said that

JUD-CONTRACTO

This departure is the latest in grievery of the management resignations from Reitish Steel.

The trend has gathered prace in recent months as Sir Christones and lave to be paid for politics, while collar staff as work are closed and shop-floor jobs lost.

Some 15,000 steel working jobs have gone in the last year.

A number of head office departments providing services and fine run down to staffing levers are losed and shop-floor jobs lost.

A number of head office departments providing services are losed and shop-floor jobs lawe gone in the last year.

A number of head office departments providing services are losed and shop-floor jobs lawe gone in the last year.

A number of head office departments providing services for the steelmaking divisions have been run down to staffing levers are in the legal department, the legal department in a warrance was a partner in a warrance was a partner in a warrance was a partner in a warrance was formed and the warrance in the finance were demand for already and nore important, prepare those leaders who must manage ment in aircraft much larger-han those in aircraft much larger flow of merch and marker and under the interested on its interested in the manufacturer.

A number of head office department in the larger hand the warrance in initial investment—a formidable

finence as a partner in a con- 1990.

with U.S. and Suropean sireral variant.

But Lord Beswick, chairmen of the nationalised Butish Aero space Corporation, said that matter involving many millions engines more numerous in the when international collaboration of pounds and affecting British short term.

when international collaboration acrospace policy for the next 20 Sir Donald predicted that surope will be linked at important points with the immense resources of the U.S."

Lord Beswick believed it that any imminent decision by Routine four-hour flights over

LEADERS of the British and tinning civil programme as well tion would be significant only if French aerospace industries dis- as in a specific new civil project, matched by similar action in agreed resterday over the extent. Collaboration was not to be West Germany and France, to which co-operation with the confused with sub-contracting. Re emphasised the strength of U.S. would be in Europe's long the apportunity fully to exhibit day, when private British air-U.S. would be in Europe's long- Britain wanted and wetcomet Britain Recognition to exploit day, when private British air the opportunity fully to exploit day, when private British air the opportunity fully to exploit day, when private British air taken and chief executive of capability.

Taken into public ownership, the the French Aerospatiale group, Last December, Lord Beswick order book stood at £1,500m. It

would expect an increase in building anishing as contractors take advantage of the fair develop their family of aircraft or join a U.S. maker. There ight — but the increase in these could be no compromise. Two signes exceeds the usual seasonal upturn."

The federation's figures reflect the trading position of 95 per disguised attack on possible two family of aircraft or developments were a thinly builders' builde

wrong to develop a fortress the British Government about a 6,000 miles would be portion or a fortress Ametica mentality. He had always preached that narrow nationalism was incompatible with the meaning or purpose of air transport. Less demand for speed, says head of Boeing

dial effort that did not excess national capabilities.

The risk was that its success would depend on penetrating a market held strongly by the U.S. However, sales of the Airbus suggested that such an objective was not stupid, he said needed, but Mr. Boullioun said there was no great demand for aircraft much larger than those important. Prepare

MR. TEX BOULLIOUN, Presi- That growth, Mr. Boullionn dent of Boeing, told the con said would create an "awesome, ference that speed was no longer traumatic, profound and one of world airlines, prime immense" impact on earthbound



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An international bank seeks a young person aged in his/her 20's, with a good education and a few years' banking experience preferably gained within a management trainee scheme. The position is as Assistant to the Loans Manager who will personally give full training and, as the majority of the work is with the French-speaking world, the successful applicant must have a good knowledge of French. Experience of international lending is not essential, but applicants must be prepared to work hard in a very active department.

Please Contact: RICHARD MEREDITH or ROY WEBB

170 Bishopsgate London EC2M 4LX 01-623 1266/7/8/9

Editor—Export Journal

Part or full time editor required for new export journal. Must have extensive experience in exports, particularly outside Europe. Based in Central London. Excellent pay plus bonus.

Write with c.v. to Box A.6446, Financial Times, 10, Cannon Street, EC4P 4BY.

UNIVERSITY OF THE WEST INDIES-TRINIDAD

Applications are invited for the CHAIR in ACCOUNTING in the DEPARTMENT OF MANAGEMENT STUDIES with specialisation in Financial Accounting and Manage-ment Accounting. Salary scale 177/78—TT\$36,729.45,480 p.a. (£1 sterling=TT\$4.62), FSSU: unfurnished accommodation if available at 10% or furnished at 12½% or housing allowance of 20 = of pensionable salary. Family passages; study and travel grant. Detailed applications of the salary and travel grant. tions (2 copies) with curriculum vitae and naming 3 referees to be sent direct to Secretary, UWI, St. Augustine, Trinidad as soon as possible. Applicants resident in the UK should also send one copy to Inter-University Council, 90/ 91 Tottenham Court Road, London W1P ODT. Further details may be obtained from either address.

Thomas Cook

Up to £8,000 Peterborough

Why commute to London? A senior banking

projects for expanding world markets.

Project Manager

technical, legal and commercial aspects of new implementation on a worldwide basis.

Candidates should have a general banking

To be responsible for the conception of new banking products together with the necessary feasibility studies to justify them, including liaison role of Project Manager for specific projects.

Candidates should have experience of product development preferably in the banking/finance sphere. Some knowledge of systems and O & M

Starting salary for both positions is negotiable, To apply, please write specifying the position,

LEADING MERCHANT BANK

requires an

Assistant to the Manager

of its Scandinavian Department to work in London.

The successful applicant should have a Danish or Norwegian background with fluency in a Scandinavian language as well as English.

He/she should be aged between 25-30 years with economic, business management or legal qualifications and preferably with some experience of banking or shipping finance.

The Bank intends to fill this position sometime between 1st October, 1978 and the end of the year. Salary will be negotiable according to the qualifications and experience of the successful applicant, not less than

Applications should be made in writing to Box A.6453, Financial Times, 10, Cannon Street, EC4P 4BY.

Antony Gibbs

MANAGEMENT AUDITOR

City Merchant Bank

circa £7000 + low cost mortgage + benefits

Supervising a small staff, the Auditor will develop a suite of computer audit programs for use in testing the procedures and functions of the Bank's soon-to-be computerised systems. Reporting to the Head of Operations, he are she will carry out critical audit reviews of all banking activities and here are all contracts with the Directors' Audit all banking activities and have regular contact with the Directors' Audit

Opened in 1973, our merchant banking client has undergone rapid growth and has already achieved high levels of profitability. Planned future growth will provide promotion opportunities for the right candidate. Applicants, age 23-26, should be recently qualified accountants with specialist computer audit experience. Please telephone or write to David Hogg, ACA, quoting reference 1/1733.

EMA Management Personnel Ltd. Burne House, 88/89 High Holborn, London, WCIV 6LR Telephone: 01-242 7773

Taxation Manager

Richard Costain Limited, a leading UK-based international construction Group with substantial operations overseas, wishes to appoint a new Taxation Manager for the London-based (Waterloo) Taxation Department Responsibilities include dealing with the taxation affairs of all the UK companies in the Group including those operating overseas and also advising on taxation matters affecting overseas companies with a view to minimising total liabilities. The Taxation Manager is also likely to be involved in contract drafting and advice on relevant taxation aspects. He or she is required to be familiar with UK and overseas tax legislation so far as it affects UK employees operating for the Group overseas. The preferred applicant will be creative and imaginative, with a commercial attitude to world-wide tax planning.

importance is attached to maintaining a good relationship with the taxation authorities and this can involve overseas travel. The appointee must have a first rate professional training and experience

in corporate texation with a subsequent period in a senior position in the taxation department of a large commercial organisation having major The salary is negotiable and will reflect the Importance of the position. A car is provided and there are other benefits including a first class

pension scheme. Where appropriate, assistance will be given with relocation expenses. Please apply in writing with full details to:

The Financial Director **Richard Costain Limited**

111 Westminster Bridge Road, London SE1 7UE.

Tax Specialist

up to £8,500

Central London

Our clients are a leading multi-national engineering construction company with UK offices in Central London and subsidiaries throughout Europe. In order to meet the demands of such international operations they are currently looking for an experienced Tax Specialist.

Providing a planning rather than a computation function the person appointed; will deal with all matters relating to Personal and Corporate tax within a European context.

Professionally qualified applicants should therefore possess at least 2 years' could come from either a legal or accountancy environment. The ideal age range

The position is based in Central London but will involve some foreign travel. Our clients offer a starting salary of up to £8,500 according to age and experience and a highly competitive range of benefits including an annual bonus

and non-contributory pension and life assurance scheme.

Please apply, quoting ref: FIT. /161, giving brief but relevant career details to date, and listing any companies to whom you do not wish your application forwarded, to Peter Phillips. Riley Advertising Limited, Old Court House, Old Court Place, Kensington, London W8 4PD.

A member of the Rex Stewart Group LONDON BERMINGHAM BRISTOL EDINBURGH GLASGOW LIVERPOOL MANCHESTER NEWCASTLE NOTTINGHAM PERTH

Financial Planning Manager

Central London

to £9500+car

Business-minded accountants, who are eager to have their abilities fully extended, will find this position of exceptional interest. Our clients are a highly profitable and expansion minded Group (T/O £50m). Reporting to the Financial Director and working closely with other directors and senior management, the successful candidate will be responsible for preparing periodic forecasts, reviewing the Group's financial plans and cash projections and conducting specific investigations. Applicants, male/female, aged 28-30, must be qualified, preferably with a degree and a knowledge of French or German and have gained a minimum of three years' industrial experience in a major international organisation. Ref: 473/ Apply to R.P. Carpenter FCA, FCMA, ACIS, 3 De Walden Court. 85 New Cavendish Street, London W1M 7RA. Tel: 01-636 0761.

ullips & Carpenter_ Selection Consultants

Antony Gibbs Holdings Limited

Fund Manager

Due to the recent acquisition of the Piccadilly Group of Unit Funds, Antony Gibbs have a vacancy for a Fund Manager with experience both in the U.K. and American markets. Applications, which will be received in the strictest confidence, should be made to:-

The Personnel Manager, Antony Gibbs Holdings Limited, 3 Frederick's Place. Old Jewry, London EC2R 8HD.



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C. E.

General Manager

ExportFinance—City

This new appointment springs from the rapid growth of a well established subsidiary of a major international bank, and the successful candidate can earn appointment to the Board within one year.

Candidates are unlikely to be under 35 and will have a comprehensive knowledge of ECGD Programmes and of their practical application in the medium/long term financing

Salary is negotiable around £15,000 plus car, profit share, non-contributory pension, mortgage facilities, etc.

Please write - in confidence - to J. M. Ward ref. B.41345.



United Kingdom Australie Belgium Canada France Germany Holland Ireland Italy New Zealand South Africa South America

International Management Consultants 17 Stratton Street London W1X 6DB

UK Director

Finance & Administration

for a subsidiary of a worldwide pharmaceutical operation with UK sales of approximately £11m. The Director, as chief accounting and administrative executive directs all financial accounting procedures, management accounting and particularly administrative services of the Pharmaceutical Division and will also provide an administrative service for UK operations. The appointed candidate will report to the UK General Manager, control a staff of 100 approximately, be a senior member of the Management Committee, giving policy advice to fellow-executives. Location, South Bucks.

Candidates, aged up to 50, should be professionally qualified and have successfully controlled a financial function with a major administrative component, preferably part of a worldwide corporation.

Negotiable starting salary, car and usual benefits.

Please send relevant career/salary data - in confidence - to S. W. J. Simpson ref. B.38293.

This appointment is open to men and tramen.



United Engdom Australia Belgium Canada France Germany Holland Ireland Italy New Jealand South Africa South America en Switzerland U.S.A.

International Management Consultants Management Selection Limited 17 Stratton Street London W1X 6DB

YOUNG ACCOUNTANT + U.S. BANK

=C. £8,000 + Banking Benefits

Our Client, a large American Bank with its London branch being a major contributor to bank profits, requires a qualified Accountant to develop and control management information procedures. Using a thorough knowledge of U.K. tax laws and two to three years' post-qualification experience in the financial sector, he or she will run the Expenses Control and Management Reporting Departments and report direct to a Senior Operations Manager. Familiarity with management information systems is necessary in order to develop the cost accounting system. This is a fine career opportunity to enter a progressive and meritocratic organisation in a functional role. Location:

Please apply in confidence to: Jack Pine, quoting Ref. 1P/35/1



David Clark Associates

4 New Bridge Street, London E.C.4 01 353 1867

HICKING PENTECOST & CO LTD

GROUP SECRETARY

Hicking Pentecost & Co Ltd is a Public Company in the Textile Industry. The Group operates eleven factories with fifteen hundred employees and has a turnover in excess of nine million pounds.

A Solicitor, Chartered Secretary or Qualified Accountant aged 30-45 is now required to fill the post of Group Secretary. The Group-Secretary is based in Nottingham and is directly responsible to the Chairman of the Group for the control of secretarial; share registration, pension and insurance work for the Company and its subsidiaries. He/she is also required to advise the Management on legal and property matters.

The commencing salary will be about £7,000 per annum and there will be the use of a company car. Applications should be made in writing giving full details of education, qualifications, experience and salary required to the Group Secretary at Queen's Road, Nottingham.

Manager : Accounts Department

Orion Bank is a multi-national investment bank in the City which has gained an enviable reputation within the international

sector.

Following recent internal re-organisation, the Bank requires a mature disciplined person with the ability to lead and manage an espanding Accounts Department with the emphasis on proven managerial ability.

Candidates should possess a comprehensive knowledge of accounting systems within an international Banking environment, a relevant professional qualification, and should demonstrate a sound understanding of management accounts preparation, computerised accounting systems, and possibly Eurobond accounting principles.

unting principles. In addition, the successful caudidate, who will probably be aged 95-45 years, must have the personal attributes essential to lead and motivate a team within an enthusiastic and dynamic

atmosphere.
This is a managerial appointment, and the importance attached to this function by the management is reflected in the competitive salary offered, together with an attractive fringe benefits package which includes preferential house loan facilities. contributory persion and family medical insurance.

Applications, which will be treated instrict confidence, should ecompanied by a curriculum vitae and addressed to:

The Personnel Director, Oxion Bank Limited, 1 London Wall, London ECZY 5JX Tel: 01-600 6222



Management Accountant

As a result of a recent promotion, a yacancy now exists within our Finance Department for an experienced Accountant well-versed in management accounting, budgeting and tariff calculations. The main responsibility of the job is to help one of cauchiations. The main responsibility of the job is to help one of our major departments to prepare budgets, five year plans and cash forecasts, interpret monthly reports, monitor and revise tariffs and set standard labour costs. There is also involvement in the preparation of capital expenditure proposals, and, as the link between Finance and Settlement Services Department, in advice on financial policy, preparation of ad hoc reports on accounting matters, and interpretation of guidelines and instructions.

The job calls for a qualified accountant (ACA, ACMA, ACCA), probably in his/her thirties, and capable of accepting a high degree of independence.

Salary is likely to be in the region of £8,500. Other benefits include non-contributory pension, life assurance and disability schemes, free membership of BUPA, LVs, five weeks' holiday

Please telephone for an application form, or write fully to Phil Mountford, Manager, Personnel Services, The Stock Exchange, London EC2N 1HP (01-588 2355 ext. 8086).



The Stock Exchange

Financial Controller

S.W. Essex. to £9,000 + car.

The very successful transport services sub-sidiary of a major UK group seeks a Controller. This is a total modern controllership, with minor exceptions. There is considerable scope to improve operating efficiency and profit-ability. Existing staff (and EDP) support is good. Salary will be augmented by a company car and 'leased' car if required.

Candidates should be Chartered Accountants aged 27 or over. Essential experience is (a) the preparation of statutory accounts and (b) performance reporting and cost control in a reasonably advanced environment. The com-pany is a recent group acquisition so it is not yet possible to forecast movement to the parent company. However, planned local growth should provide more than enough in the way of prospects. This is an equal opportunity appointment.

For a fuller job description write to John Courtis & Partners Ltd., Selection Consultants, 78 Wigmore Street, London WIH 9DQ., demonstrating your relevance briefly but explicitly and quoting reference 795/FT.

INVESTMENT MANAGER

Fidelity Management are seeking an experienced Investment Manager for its London enceu investment manager for its London Office. An oportunity arises for a man or woman who has had several years' solid experience of managing internationally diversified portfolios on behalf of institutions. Specific responsibilities will include coverage of the major Continental European markets with special amphasis upon equities. This is with special emphasis upon equities. This is an opportunity to join a major investment management firm at an exciting time in the development of its international business. An attractive compensation package to include salary, bonus, pension and other fringes is wide open to negotiation.

Applications, which will be treated with the strictest confidence, should be submitted

Jim Tonner.

Fidelity Management & Research (U.K.) Ltd., 64 Cannon Street, London E.C.4. (Tel: 01-248 4891.)

Cambridgeshire

Up to £12,000 + car

FINANCIAL DIRECTOR

The Client

The potential of this rapidly expanding company, which manufactures and markets a well known consumer product, the leader in its field, is demonstrated by its dramatic growth over the past 5 years. From sales of less than £0.2 million in 1973 turnover is currently running in excess of £6.5 million a year. Profits have been consistently good and prospects of substantial future growth, both at home and overseas, are excellent.

The Job

Reporting to the Chief Executive of the U.K. division with a functional link to the Group Financial Director, responsibility is for the financial and management accounting functions. The initial emphasis will be on ensuring that standard costing systems are properly developed and implemented.

Must be a qualified accountant with substantial production and management accounting experience, gained preferably in an engineering environment. Preferred age, early 30's. Male or female. A mature and lively approach with an ability to motivate people and get things done is essential. Brief but comprehensive details of career and salary to date, which will be treated in confidence, should be sent to J. G. Cameron, Executive Selection Division at the address below. Please quote reference CF344 and include if possible, a daytime telephone number at which you can be contacted.

COOPERS & LYBRAND ASSOCIATES LTD.

Management Consultants Shelley House, Noble Street. London, EC2V 7DQ.

financial controller

Volvo Group, part of the Lex Service Group, comprises Volvo Concessionaires, sole UK importers of Volvo cars and parts, and Lex Brooklands, a chain of retail Volvo distributors. It has an annual turnover in excess of £100m and an impressive growth and operating record.

As a result of internal career advancement, we are seeking to appoint a Controller who can demonstrate an outstanding financial track record, good business acumen and who has the potential to progress to the highest levels

within the expanding Lex Service Group.
The Controller will be responsible for the development of financial policy within Volvo Group and for providing a financial control and information service. He or she will advise and assist the Group Management on all financial matters and negotiations, with particular regard to the optimisation of profits and cash flow. He or she is also responsible for the DP function, which is an integral part of the daily operation of the business, for controlling the Capital Project Appraisal System and for

Aged 33-40, candidates, male or female should be qualified chartered accountants with a successful career in financial management. Previous line responsibility for a DP activity is highly desirable. It is unlikely that anyone earning less than £13,000 p.a. would have the appropriate level of experience for this important position. Benefits include a Company car, B.U.P.A., 5

weeks' holiday and non-contributory pension and sickness schemes. The position is based at High Wycombe, Bucks and generous relocation expenses will be given where Please send a detailed qualification and career

profile, obviating the need for an application Mr R J Tidey

Group Personnel Manager Volvo Group Volvo House Lancaster Road Cressex Industrial Estate HIGH WYCOMBE

VOLVO

GENERAL MANAGER

Large Trading Group in Middle East

An opportunity exists in the Middle East for an outstanding senior executive of genuine provable ability with a track record of at least 15 years in management of trading or similar entrepreneurial concerns.

Candidates must have a wide ranging knowledge of all aspects of international trading and particular skills in organising and running a multi-divisional company with branches.

The post will be that of General Manager and the rewards will be extremely attractive to an appointee of the right calibre.

Terms will include incentive in the form of profit sharing.

Applications in writing with full curriculum vitae to Box . A6455, Financial Times, 10, Cannon Street, EC4P 4BY.

Jonathan Wren · Banking Appointments The personnel consultancy dealing exclusively with the banking profession

The personnel consultancy de CREDIT INSPECTOR 100% Travel

to \$21,600 +100% expenses

A major international bank wishes to recruit a young banker with credit analysis or credit inspection experience to assist in conducting detailed examinations of the bank's loan portfolio throughout its global branch network. This will include in-depth analysis and evaluation of risk

assets; pinpointing undue risks and exposures; recommending corrective action and improvement; and generally assisting in the improvement of credit administration procedures. The position involves 100% travel; applications are therefore

invited from candidates prepared to be fully internationally mobile.

MONEY MARKET Negotiable Instruments Substantial Salary

An active London merchant bank seeks to expand its already considerable dealing operations by establishing a Negotiable Instruments desk within its Money Department.

This opportunity is open to a person with four or five years dealing experience in the Dollar CD, FRN or Eurobond markets. To an energetic, sales-oriented executive the position offers excellent scope for personal development.

Please Contact: SOPHIE CLEGG or KEN ANDERSON

170 Bishopsgate London EC2M 4LX 01-623 1266/7/8/9

TAXATION SUPERVISOR Banking

London EC3

C£8500+ major benefits

Our client is a major international commercial banking group with a comprehensive range of activities. The Taxation Supervisor will co-ordinate UK compliance work for the Group, reporting directly to the Group Taxation Manager at their Head Office in the City.

This appointment will suit candidates with wide commercial tax experience, preferably aged 35 upwards. An excellent benefits package includes subsidised mortgage and non-contributory pension scheme. Please telephone or write to Stephen Blaney, B.Comm., ACA, quoting reference 1/1734.

EMA Monagement Personnel Ltd.
Burne House, 88/89 High Holbom, London, WCTV 6LR
Telephone: 01-242 7773

ROWE & PITMAN, HURST-BROWN

Analyst—Food Manufacturing/Tobacco

Rowe & Pitman, Hurst-Brown are seeking an analyst to develop their research effort in these sectors. Applicants should have had at least two years' relevant experience which will probably bave been gained either in stockbroking or with a major financial institution.

We are offering an attractive remuneration of salary and profit sharing bonus, together with a non-contributory pension scheme incorporating good life cover.

Applications in confidence with full curriculum vitae to:-

P. N. Smith, Esq., Staff Manager, Rows & Pitman, Hurst-Brown, 1st Floor, City-Gate House, 3945 Finsbury Square, London EC2A 1JA.

GROUP ACCOUNTANT

Recently Qualified

London Wf

10 £7500 + car

· TI

Providing a range of financial, accounting and management services to group companies, the Accountant will also have major responsibilities in the development of group financial control and strategy. Working closely with the young Financial Controller he or she will be involved in systems development, cash management, and the review of potential acquisitions.

A sub-group of a diversified public group, our trading company client has a tumover of 250 million, healthy profits and is growing both organically and through acquisition. Aged 23-26, applicants should be recently qualified chartered accountants preferably with major professional practice experience. Please telephone or write to Davig Hogg. ACA, quoting reference 1/1739.

EMA Management Personnel Ltd.

Burne House, 88/89 High Holborn, London, WCIV 6LR
Telephone: 01-242 7773

International Investment Analysis

Bank of America International Limited has vacancies for two investor analysts, specialising primarily in international equity investment - one with responsibility for North American markets and the other for European markets, principally U.K. and West Germany.

The successful candidates will undertake analysis of a wide range of economic and financial trends with view to providing inputs for currency and interest rate forecasts in their respective areas. The major part of their work will be formulation of equity investment strategy, including specific sector and individual stock analysis in each market.

These positions call for considerable adaptability, and a high degree of ability in communication in both verbal and written form. Travel will be involved

Age is not a limiting factor, although the age group is envisaged at 24-30; candidates should have a minimum of two years relevant experience with an Institution or brokerage house; an economics degree or similar qualification An attractive salary will be offered reflecting experience and ability, and

benefits are in line with normal banking practice.

Please send complete career details, in full confidence, to the Director of Research at the address below.

International Investment Management Service

BANKOFAMERICA International Limited, St. Helen's, One Undershaft, London EC3A 8HN. Tel: 626 2772

SENIOR FINANCIAL EXECUTIVE-U.S.

A highly successful and rapidly growing company on the West Coast requires a senior executive with 8-10 years' first-hand experience in the functions of controllership.

Background experience should be international, most probably in a major U.S. consumer goods company, where judgment, integrity and the ability to administrate effectively and to make tough decisions under pressure would have been essential. The accent is upon a strong background in control, but knowledge of the treasury function orld-wide would be helpful.

An extremely generous salary in the upper five-figure bracket with additional fringe benefits is offered and, as it is envisaged that the successful candidate will have the oportunity to become the Chief Financial Officer of the company, candidates should have distinct style and an attractive personality as well as the necessary technical competence, initiative and diplomacy.

Please send full details of career background, which will be treated in confidence, to Box A.6454, Financial Times, 10, Cannon Street, EC4P 4BY.

Company: Secretary

For a public company, providing a range of Industrial Services through a group of subsidiary companies both in the U.K. and overseas. The Company Secretary designate will report to the present incumbent and also to the Group Managing Director and will be appointed Company Secretary in due course. Responsibilitie include the usual range of company secretarial duties together with the preparation and vetting of legal contracts. This appointment offers the opportunity to make a positive contribution at top level to a corporate management team. Applicants should be qualified Company Secretaries with considerable experience in financial and insurance matters tog knowledge of group pension schemes. Salary negotiable, together with excellent fringe benefits with Company car, based in a small Head Office west of

Preferred age 30-40. Reference 112.

INSURANCE

Sir Timothy Hoare, Chichester House,

Chichester Rents,

WC2A 1EG.

Telephone Philip Egerton on 01-409 0434.

Philip Egerton Associates

Selection Consultants 178/179 Piccadilly, London WIVO OP

CHIEF ACCOUNTANT

circa £9,500 + car

A general insurance company, part of a large U.S. group,

requires a qualified accountant, aged about 27-35, for a new

appointment. He or she will have gained management ex-

perience, ideally in the insurance industry. With the help

of three managers, the Chief Accountant will control the

accounts department, which uses fully computerised systems, and will work closely with the Financial Director. The

company is growing fast and offers an attractive opportunity

to participate in a dynamic management team.

CITY



WOOD, MACKENZIE & CO.

Members of The Stock Exchange

MATHEMATICAL ANALYST/PROGRAMMER

Due to continuing expansion a vacancy has arisen within the computer department for an Analyst Programmer with a sound mathematical background. The successful applicant will be required to contribute at a high level to special mathematical projects which are being developed on our ICL 1902S/2950 mainframes and via terminals to remote mainframes.

Applicants should have a degree in mathematics or a related subject and general computer experience, including high level language programming. Knowledge of investment techniques and more detailed experience in COBOL/FORTRAN programming would be desirable but not essential.

Location in Edinburgh and conditions of employment are excellent with starting salary negotiable up to £6,000 p.a. depending on experience. The firm operates a profit related bonus scheme and contributory pension scheme.

Please apply giving details of your career to date, to: Computer Co-ordinator, Wood, Mackenzie & Co., Erskine House, 68-73 Queen Street, Edinburgh, EH2 4NS. Tet: 031-226 4141

FINANCIAL CONTROLLER

required by expanding home building company. Must be a qualified Accountant with commercial experience preferably within the building industry. This senior post commands a top salary, company car and other benefits. The position offers scope for initiative and the successful caudidate, who should be of board material, will be responsible for all financial aspects of the company, including the preparation of company accounts, forecasting and site trading accounts, updating of site appraisals on a regular basis and comparisons of actual costs

and appraised costs.

Please apply in writing with curriculum vitae in strictest confidence to: Mr. I. Fisch

ARNCLIFFE HOLDINGS LTD. (inc. Walt Ratcliffe Ltd.). Holbeck Chambers, 101 The Headrow,

Leeds LS1 5JW. Tel: 445051.





exceptional vacancy based in London for the person with matching ability. The basic requirements include successful completion of the U.S. National Commodity Futures exam, experience in trading commodities on all the U.S. futures exchanges and expertise in money management: fluency in various Indian dialects including Hindi, Gujrati and faultless English. A knowledge of Persian or Arabic would be highly desirable and a knowledge of Italian, German and French would be advantageous. The ideal candidate will have existing commodity clients in the Middle East/Gulf areas as well as India and be able to develop new prospects in those areas and carry them through to

Salary is circa £12,000 per annum with usual big company fringe benefits. If you feel you can handle this challenge, please write, in strictest confidence. enclosing curriculum vitae, to Box A.6456, Financial Times, 10. Cannon Street, ECAP 4BY.

Manager-Finance Systems

London, c. £9,000 (incl. bonus) + car

Our client is the highly successful UK subsidiary of a major and control systems, liaise with the accounting EDP international corporation involved in the records and music functions at the design stage and take full responsibility for industries. The subsidiary's growth over the past few years has been exceptional and they now employ 1800 and have a tumover in excess of £50 million in the UK. Through creativity and leadership, the successful candidate will- computerised financial systems. The ability to communicate identify user needs in financial and management information. clearly and influence senior management is essential.

G.E. Forester, Ref: 18167/FT. Male or female candidates should telephone in confidence for a Personal History Form to:

LONDON: 01-734 6852, Sutherland House, 5/6 Argyll Street, W1E 6EZ.



BIRMINGHAM, CARDIFF, GLASGOW, LEEDS, LONDON, MANCHESTER, NEW CASTLE and SHEFFIELD.

RETIRING MANAGING DIRECTOR

CHIEF EXECUTIVE

desiring further active career is invited to enquire for information re top vacancies growing international charity. Salary and expenses, London or U.S.A. based. Entrepreneurial ability/management men and affairs indicated, Example: Overseas Project Director, London

visits yearly. Telephone Founder's Office, 01-493 3397 or 01-499 6652, or write: Help The Aged and associated charities, 32, Dover Street, London W1A 2AP. Readers - willing to help worthwhile cause please draw this advertisement to the attention of recently retired

or retiring top businessmen.

based, with three overseas

Corporate Finance

its activities in the Corporate Finance field in the UK, and as a result, there are two new appointments to be made. The first vacancy is for a Young Accountant or Solicitor, aged between 25 and 29, with a good honours degree who has had relevant post qualification experience in fields related to Corporate Finance. Alternatively similar experience may have been obtained in industry. The second is for an Acquisitions Executive whose responsibilities will

Hill Samuel & Co. Limited is expanding include the initial identification of possible acquisitions and any necessary financial appraisal. Applicants in their mid to late 20's should demonstrate that they have gained sound practical experience either with a firm of stockbrokers or in another financial institution. An attractive remuneration package will be negotiated including mortgage facilities, BUPA and an excellent noncontributory pension scheme. Please write with full career details as soon as possible to:-

R. C. G. Gardner, Chief Personnel Officer, Hill Samuel & Co. Limited, 100 Wood Street, London EC2P 2AJ.

All applications will be treated in the strictest confidence.

PANMURE GORDON & CO.

INVESTMENT ANALYST

We are looking for an analyst to join our team covering chemicals, pharmaceuticals and textiles. A university degree (or appropriate professional qualification) and some experience in investment analysis, not necessarily in related fields, are the minimum qualifications required. The successful candidate will be expected to acquire a broad expertise in these sectors and to become a specialist in textiles and fibres. ...

> Applications with C.V. should be made to: G. F. Hallwood at 9 Moorfields Highwalk London EC2Y 9DS

LEGAL AND PERSONNEL **ADMINISTRATOR**

ASEA Limited, the UK subsidiary of the International Swedish electrical engineering group, has a requirement for a Legal and Personnel Administrator who will report to the Financial Manager and Company Secretary and advise on legal aspects of the Company's work in commercial matters and take responsibility for personnel administration.

This is a new position, based in Central London, and offers a first class opportunity for the successful candidate to become involved in the UK development of the Company and enlarge his or her responsibilities in line with future growth.

The person suited to the position will probably be a qualified Chartered Secretary aged 27-30 with up to date knowledge of commercial, employment and pensions legislation. An exceptionally generous remuneration package, with additional

large company benefits, is negotiable.

Please write in the first instance to: N. Jenkins, America Square Associates Ltd., 34 Queen's Gate Place Mews, London SW7 5BQ or telephone 01-589 1589.

DREXEL BURNHAM LAMBERT INCORPORATED

A vacancy has arisen in our London Office for an experienced person to handle the settlement of our American Securities business.

This is a position of great responsibility and applicants should be familiar with securities settlement procedures, dealings in currencies and U.K. Exchange Control regulations.

Please apply in writing to:

Mr. A. L. Forward, Winchester House, 77 London Wall, London, E.C.2.

Replies will be treated in the strictest confidence.

CHARTERED SURVEYOR WEST AFRICA

c. £16,000 plus allowances

Qualified Chartered Surveyor, probably over 30, married and with considerable experience in West Africa or similar area to manage office in large urban centre. General management, valuation, project finance and construction experience at senior level desirable. Usual free housing, passages and fringe benefits.

> Please send curriculum vitae to: The Advertiser (Ref. JM) 19, Grosvenor Place, London SWIX 7HP

NEWLY QUALIFIED ACCOUNTANCY APPOINTMENTS

21st September

The Financial Times proposes publishing three pages of Newly Qualified Accountancy Appointments on 21st September following the publication of the results of the Finals Examinations.

MES

If you are expecting to qualify, the Financial Times intends to publish the widest possible range of opportunities open to you.

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For further details, including reprints of previous features, contact: James Jarratt

on 01-248 4601 (direct line) .. or 01-248 8000 ext. 588

FINANCIALTIMES **EUROPE'S BUSINESS NEWSPAPER**

BUSINESS RESEARCH

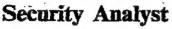
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Our client is a medium sized profitable quoted U.K. company operating in the health care sector. They wish to appoint a Business Research Assistant to their Group Planning Unit. The appointee will have the specific responsibility for investigating and analysing a wide range of business research projects proposed by the operating divisions and will play a

Candidates should have a good Honours degree and must have at least three years relevant experience in a medium or large company. This experience could have been acquired in a specialist business research, development or planning function. Some travelling within the U.K. is involved. There are attractive prospects for promotion to a line

Please send a comprehensive career résumé, including salary history and quoting ref. 941 to:

W. L. Tuit, Tauche Ross & Co., Management Consultants, 4 London Well Buildings, London, EC2M 5UJ, Tel: 01-588 6644.



International financial institution, located in Paris, seeks an insurance industry analyst:

-28 to 35 years old;

—At least three years' experience with a good working knowledge of Life and non-Life accounting methods as practised on the Continent;

-Must speak French; a certain fluency in German would be a plus.

Job function will be to write in-depth reports on the major European insurance companies with special emphasis on comparative judgment and stock market appreciation.

Remuneration in function of experience and indexed to cost of living.

Scud c.v. and oboto: No. E.12.967 CONTESSE PUBLICITE 20, Avenue de l'Opera—75040 PARIS CEDEX 01—FRANCE

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Salary commensurate with experience. Other normal hank benefits. Please write giving full details of experience to: The General Manager, National Bank of Detroit, 28 King Street, London, EC2P 2AU.

CONTRACTS AND

NOTICE TO PROSPECTIVE SUPPLIEND

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Page Pulyshase and Demand Demand 17—Battery Sattery Charger 354
18—Test and Laboratory 1542

TOTAL

TENDERS

UNIVERSITY OF NAIROBI Applications are invited for the follow-inc posts in the DEPARTMENT OF BUSINESS ADMINISTRATION.

ASSOCIATE PROFESSOR. Applicants should hold a Doctorate in Business Administration involved by Marketinas. Management or a related Social Science field and must have considerable teaching and research experience. Applicants should have a recognised publishing neural and be experience. Applicants should have a recognise and publishing record and be capable of providing both academic and controlling the desire and controlling the second of the more junior knowly members. The appointer will be expected to teach in one of the following areas in cither the understandant (B-Com.) or the graduate (B-Com.) or the graduate (B-Com.) or the graduate (B-Com.) or the analysis. Organisation Theory and Behaviour, Bisoners Policy or Labour Relations and Personnel Administration. The abounce will also be expected to public the research activities of students in the M-B-A, preframmer and also specialize in either Management.

Policy of Personnel Management.

SENIOR LECTURER. Applicants should have at least a Master Docknow at Business Authoristration. Management of a related Social Science and teaching. Presented and significant edimensional qualifications. The appointed will be expected to teach at the understanding and postgraduate level and have the expected to teach at the understanding and research readership in some of the following areas:—Personnel Administration, Labour Relations, International Business, Organisation, District, and Rehaviour Marketing.

Public Enterprise Management.

Salary scales: Associate Professor.

Public Enterprise Management.

Salary scales: Associate Professor
183.84-4.88 pa. Senor Lecturer
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with curriculum viac and naning 5 reterees to be sent direct to Registrar.
University of Nation. Pu Box 2015.
Nairobi, Kenya by 26 September 1974.
Applicants resident in the UK should
also send one copy to the InterUniversity Council, 90 91 Totrohams
Comy Road, London WIP 9DT.

ART GALLERIES

FIELDSCURNE GALLERIES, 65, QUECN'S Grove, 5t. John's Wood. 586, S500. LANDSCAPES OF ROYAL ACADEMICIAN. MARBLE Carrings YOMA SASBURGH. FINE ART SOCIETY, 148, New Bond St., W 1, 01-629 5116, SUMMER EXHIBI-

CLUBS

COMPANY

NOTICES

HRISTIAN AID Invites amplications from qualified accountains for the past of Chief Accountant of this oversess and

chief accountant of this oversess aid charity now handling £5m annually. Duties include administering finance department of 10 people. Christian commitment and desire to help needy of Third World are sought to applicants who should write for dealts to the Director. Christian Aid, P.O. Box No. 1, London. S.W.S.

INVESTMENT MANAGEMENT/RESEARCH Mid to late 20's

Our client, a major and well respected financial institution. wishes to expand its investment staff.

It is currently seeking graduates or those professionally qualified with two to five years' experience of investment work. The job to be filled combines assisting in the management of portfolios invested around the world and researching for others in the organisation making investment decisions.

The remuneration package will stand comparison with any in the City.

Please send a detailed career résumé, including salary history, quoting ref. 942, to:

> W. L. Tait, Touche Ross & Co., Management Consultants, 4 Lendon Wall Buildings, London, EC2M 5UJ. -Tel: 01-588 6644.



FINANCIAL CONTROLLER

We are the UK subsidiary of an American parent engaged in the manufacture and supply of a range of speciality products to the pharmaceutical, food and allied industries.

Applications are invited for this Senior Managerial position: Reporting on a direct basis to the Managing Director, the successful applicant will be responsible for all aspects of the Financial Management of the company.

- PREPARATION AND PRESENTATION OF BUDGETS, FINANCIAL AND BUSINESS PLANS
- MONTHLY PREPARATION OF MANAGEMENT
- CASH FORECASTING COSTINGS
- LIAISON WITH USA PARENT AND ATTENDANCE AT ANNUAL FINANCIAL MANAGEMENT MEETINGS
- CO-ORDINATION OF MANAGEMENT INFORMATION SERVICES IN ACCORDANCE WITH ESTABLISHED PLANS TO INTRODUCE A COMPUTERISED SYSTEM
- INVOLVEMENT IN COMPANY AND PRODUCT ACQUISITIONS.

Applicants must be qualified accountants with at least 5 years industrial experience. A strong personality and self motivation are

The successful applicant will be joining a dedicated team of professional managers and we envisage a total remunerative package of £9,500.00 which includes a company car, pension scheme etc. Please write in confidence, enclosing a detailed curriculum vitae. to: Miss Irene Scorer. Colorcon Limited. Orpington Trading Estate, Sevenoaks Way, Orpington, Kent BR5 3SR.

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The successful candidate will be based at our West London European Headquarters, spending some 60%-70% of his or her time abroad, mainly in Europe. Responsibilities will be varied and include the review of European subsidiaries' monthly reports, the co-ordination and preparation of budgets, and ad hoc analyses both in London and Europe. The job obviously calls for someone with wide experience who has worked and preferably trained in a sophisticated accounting environment. At least 2 years' post qualification experience is essential and a working knowledge of at least 1 European language would be arrasset. A starting salary in the region of £8,000 pa will be offered

plus all the usual benefits associated with a major international company.

Please write giving full career and personal details to Ms W Skinner, Hertz Europe Limited, Isleworth House, Great West Road, Isleworth, Middx.



THE No1COMPANY

COMPANY NOTICES

McCARTHY GROUP LIMITED porsited in the Republic of South Al

PRELIMINARY PROFIT ANNOUNCEMENT AND DIVIDEND DECLARATION The directors amounce that the unaudited group profit for the year ender 30th June, 1978, with comparative figures for the previous year, in as follows:—

3 141 Dividends declared for the year: interim ordinary

Final Ordinary Dividend No. 75

NOTICE 15 HEREBY GIVEN that the soal ordinary dividend No. 75 rate of 4.5 (four comma five) cents per there has been declared directors for the year ended 30th Jane. 1978, payable to holders of alignes registered in the books of the company at the close of business 22ml September. 1978.

In terms of the South African Income Tax: Act 1962 (as amended).
Resident Shareholders' Tax of 15% will be deducted by the comp.
(dividends psychic to shareholders whose addresses in the register
there are outside the Republic of South Africa.

By Order of the Board.

whole abutanes in the history with Arics. the Board.

B. J. CLOUSTON. A.C.I.S., Secretary, secretary, indica Secretaries and Certification Office. Hill Samuel Registrars (S.A.) Umited P.O., Bux 62318, Marshallown, 2107 TRANSVAAL



Ring London, Birmingham 246 8026

for the FT INDEX

and **Business News Summary**

LEGAL NOTICES

Nos. 002572. 002573 and 002573 of 1978
In the High Court of JUSTICE
Chancery Division Compenies Court. In
the Matters of MILANDER SCURTIES
LIGHTED. FRAMCS MUSICAL INSTRUMENTS! LIGHTED and SAFFRON EARS
BESSIGN LIBSTED and SAFFRON EARS
DESSIGN LIBSTED and sin the Matter of
the Companies for the Windins-Ep of the abovenamed Companies by the High Court of
Justice were, on the 14th day of Agensi
1978. presented to the said Court by the
Commissioners of Costoms and Excess of
King's Beam House. 38-41 Mark Lane,
London, ECSR TEZ and that the Said
Petitions are directed to be heard before
the Court strings at the Royal Courts of
Justice, Strand, London, WCSA 21.L on
the 18th day of October 1878.

NOTICE IS BEREBY GIVEN that
Petitions are directed to be heard before
the Court strings at the Royal Courts of
Justice, Strand, London, WCSA 21.L on
the 18th day of October 1878.

NOTICE IS BEREBY GIVEN that a
Petition for the windmarks of the
said Companies destrous to support or the
said Companies of support or by the
Commissioners of Costoms and Excess of
the said Court by the High Court of
Justice, Strand, London, WCSA 21.L on
the 18th day of October 1878.

NOTICE IS BEREBY GIVEN that a
Petition for the windmarks of the
said Companies of the said Court by the
time of hearing in person or by the
Commissioners of Costoms and Excess of
the Petition will be furnished be the
said Companies and the said court
of the Petition will be furnished be the
said companies of the said Court by the
Course for that purpose; and a cony
of the said Petition is directed to be heard before
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of any of the said Court by the
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No. BESSE of 1978

In the HIGH COURT OF JUSTICE
Charcers Division Companies Court. In the Mather of SOUTH LONDON AGENTS HAPPORT & EXPORT LIMITED and in the Mather of De Companies Court. In the Mather of De Companies Act 1965.

NOTICE IS REREBY CIVEN that a Pertition for the winding up of the abovenamed Company by the High Court of Justice was on the 16th day of August 1978 presented to the said Court by H. & R. JOHNSON-RICHARDS TILES LIMITED. Transall, Stoke on Trent, and that the said Petition is directed to be beard before the Court sitting at the Royal Courts of Justice: Strand, London WC2A 2LL, on the 18th day of October 1978, and any creditor or contributory of the said Company desirous to support or oppose the mathing of an Order on the said Potition, max-suppear at the time of hearing to person 9, by the Company fertility or contributory of the Said Company required such population of contributory of the Said Company required such population of contributory of the Said Company required such population.

EMMINIST DOGGETT & CO., 22 Multima Rill, Tadler, Basingsicke, Hamis, RC38 410.

NOTE:—Auy purpon who intends to appear on the hearing of the pather.

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PERSONAL

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BUSINESS OPPORTUNITIES BUSINESSES FOR SALE

All Advertisements scheduled to appear in to-day's paper will be published on

Tuesday 5th September

APPOINTMENTS

Reorganisation of Davy group

DAVY INTERNATIONAL is to create two major operating groups—engineering and construction and engineering and construction of these two groupings.

It is also proposed to change the title of Davy International to Davy Corporation. This will let transport and the engineering and construction group and the engineering and construction group and the engineering and manufacturing group will then be HOPS MARKETING BOARD for called Davy Engineering Industries. The new names are business planning for J. Lyons and expected to become effective on Company.

Mr. J. G. McMillau has been appointed BBC TELEVISION'S inner city area office of tomorrow from Mr. Terry Hughes NATIONAL WESTMINSTER who is leaving the BBC at his own BANK on the retirement of Mr. L. R. Carnell.

September 26.

At Davy International Mr. A. N.
Whiting will be chief executive; has made three senior appointive Europe and will also deputise king moves to Brussels as for Mr. Whiting; and Mr. M. J. European director of business and Milner will have the new position of corporate development officer.

Davy Engineering Inustries will from the executive; Mr. E. P. McTighe as deputy chief executive; and Mr. J. D. Eccles.

Mr. C. G. N. Ryder has been appointed deputy chairman of the CHINA NAVIGATION COMPANY from tomorrow. The company is a member of the Swire Group.

Mr. S. A. Briggs has relinquished his position.

Mr. D. Lewis Macdonald has been appointed production director and Mr. Trefor J. Watkins, financial director, of RACAL-DATACOM.

Mr. S. A. Briggs has relinquished his position as company secretary of BERNARD MATTHEWS but remains financial director. He is succeeded as secretary by Mr. D. G. Brown. Mr. S. A. Briggs has relinquished

request to return to production as a freelance.

Mr. Peter Shuttleworth has been appointed a director of LINDUSTRIES from tomorrow.

Mr. Charles Pearce has been Mr. Charles Pearce has been Sppointed a director of TI ACCLES AND POLLOCK and Mr. I. T. Richardson has become director of marketing.

The Secretary for the Environment has appointed Mr. Rosald Groves and Mr. Lewis Rose to be members of the board of the NATIONAL BUILDING AGENCY. Mr. Groves is chairman and chief executive of the International Timber Corporation. Mr. Rose is a solicitor.

BRITISH RAILWAYS BOARD Mr. Hugh Rafferty has been states that following the comple-appointed manager of the city tion of his term of appointment office of the BANK OF IRELAND as a part-time member of the in Coleman Street, London.

UK ECONOMIC INDICATORS

ECONOMIC ACTIVITY-Indices of industrial production, manufacturing output engineering orders, retail sales volume (1970= 100); retail sales value (1971=100); registered unemployment (excluding school leavers) and unfilled vacancies (900s). All seasonally adjusted.

| | 1977 | Indl. prod. | Mig. | Eng. order | Retail vol. | Retail value | Unem- ployed | Vaes. |
|---|----------------------|----------------|----------------|------------------------|----------------|-----------------|-----------------|------------|
| | 2nd qtr. 3rd qtr. | 102.1 | 103.2 104.0 | 106 106 | 102.5 104.3 | 222.0 234.2 | 1,330 1,418 | 163 151 |
| | 4th qtr. 1978 | 102.4 | 103.4 | 106 | 104.4 | 239.4 | 1,431 | 157 |
| • | 1st qtr. 2nd qtr. | 103.5 | 103.8 104.8 | 98 | 106.3 107.9 | 246.0 254.2 | J,409 1,267 | 188 213 |
| | Feb. March | 103.7 103.5 | 103.7 | 11 6 103 | 106.8 107.0 | 246.5 249.8 | 1,409 1,400 | 187 196 |
| | April May | 105.4 103.3 | 103.8 103.6 | 104 117 | 106.7 108.4 | 250,3 255,2 | 1,387 1,366 | 204 210 |
| 2 | June July | 104.2 | 105.0 | | 108.6 110.5 | 257.1 | 1,365 1,371 | 217 211 |
| 1 | August | | | | _*** | | 1,331 | 208 |

OUTPUT-By market sector: consumer goods investment goods. intermediate goods (materials and fuels); engineering output, metal manufacture, textiles, leather and clothing (1970=100); housing starts (000s, monthly average).

| 1000 | Consumer goods | luvst. goods | intmd. goods | Eng. output | Metal mnfg. | Textile etc. | Housg. sterts* |
|--|---|---|---|---|--|--|--|
| of 1977 at 2nd qtr. of 3rd qtr. e. 4th qtr. | 115.5 | 98.1 98.6 98.0 | 105.2 104.9 101.9 | 99.2 100.1 99.4 | 80.5 83.3 74.8 | 100.2 100.7 100.0 | 25.1 25.4 29.7 |
| th qu. 1978 1978 1st qtr. 2nd qtr. Jan. Feb. March April May June | 116.1 116.8 116.0 117.0 117.0 117.0 118.0 | 99.6 99.0 100.0 99.0 100.0 100.0 98.0 99.0 | 104.6 106.9 104.0 106.0 104.0 109.0 106.0 | 109.7 101.2 101.0 101.0 102.0 102.0 101.0 | 76.8 83.1 75.0 78.0 78.0 85.0 85.0 80.0 | 99.7 100.5 99.0 100.0 100.0 105.0 98.0 | 17.8 26.7 17.4 15.3 20.6 25.4 25.1 29.6 |

EXTERNAL TRADE—Indices of export and import volume (1975=100); visible balance; current balance; oil balance; terms of trade (1975=100); exchange reserves.

| | | Import volume | | Current | Oil | Terms trade | Resv. US\$ba* |
|------------------------------|----------------|------------------|--------------|----------------|----------------|----------------|------------------|
| 1977 2nd qtr. | | 109.8 | -764 | -363 | -745 | 100.3 | 14,9 |
| 3rd qtr. 4th qtr. | 124.1 | 106.4 102.6 | + 54 | +537 +486 | - 602 - 657 | 101.0 102.4 | 13.4 20.39 |
| 1978 lsi qtr. 2nd qtr. | 102.3 122.6 | 114.3 110.0 | -574 -139 | -305 +221 | -646 -420 | 105.1 104.4 | 20.63 16.75 |
| Feb. | 127.4 121.4 | 111.3 116.9 | + 43 -279 | + 132 - 189 | -203 -209 | 104.8 104.8 | 20.7 20.32 |
| April May | 125.9 | 104.1 114.1 | +187 -218 | +307 - 98 | -149 -155 | 104.0 105.1 | 17.04 16.66 |
| June July | 121.9 126.9 | 111.9 | -108 -150 | + 12 - 30 | -116 -229 | 104.1 104.8 | 16.54 16.74 |

FINANCIAL-Money supply M1 and sterling M3, bank advances in sterling to the private sector (three months' growth at annual rate); domestic credit expansion (£m); building societies' net inflow; HP, new credit; all seasonally adjusted. Minimum lending rate (end period).

| | | | Bank | | | | |
|------------------|------|------|--------|--------|--------|---------|----------------|
| | MI | M3 | advanc | es DCE | B5 | HP | MLR |
| | % | % | 95 | £m | inflow | lending | 9- |
| 1977 | ,,, | ~ | ,,, | | | | .0 |
| 2pd otr. | 24.8 | 14.9 | 5.5 | + 769 | 1.290 | 1.047 | 2 |
| 3rd otr. | 28.0 | 10.4 | 20.3 | +365 | 1,084 | 1.149 | ř |
| 4th qtr. 1978 | 23.2 | 12.6 | 8.8 | +698 | 1,565 | 1,189 | 87 |
| ist qir. | 24.7 | 24.9 | 17.5 | +1.818 | 1.049 | 1,260 | 61 |
| 2nd gtr. | 8.7 | 15.9 | 24.8 | +2.893 | 694 | 1.393 | 10 |
| Feb. | 26.8 | 25.5 | 17.9 | +963 | 353 | 418 | 61 |
| March | 24.7 | 24.0 | 17.5 | +597 | 308 | 413 | |
| April | 19.I | 24.7 | 12.6 | +1.432 | 335 | 463 | 6 1 |
| May | 13.2 | 17.4 | 18.3 | +1.124 | 212 | 471 | 9 |
| June | 8.7 | 15.9 | 24.8 | +337 | 147 | 459 | 10 |
| July | 9.3 | 9.5 | 25.9 | +114 | 180 | 200 | 19 |

INFLATION—Indices of earnings (Jan. 1976=100); basic materials and fuels, wholesale prices of manufactured products (1970=100); retail prices and food prices (1974=100); FT commodity index (July 1952=100); trade weighted value of sterling (Dec. 1971=100).

| 1855 | Earn- ings* | Basic matis." | Whsale. mnfg.* | RPI* | Foods | FT* comdty. | Strig. |
|-----------------|----------------|------------------|-------------------|-------|-------|----------------|--------|
| 1977 | | | | | | | |
| nd gir. | 114.5 | 347.7 | 259.2 | 181.9 | 191.2 | 250.0 | 61.6 |
| rd qtr. | 116.L | 349.5 | 267.7 | 184.7 | 192.1 | 239.9 | 61.8 |
| th qtr. 1978 | 119.9 | 330.6 | 272.1 | 187.4 | 193.3 | 234.2 | 63.3 |
| st atr. | 123.1 | 326.7 | 279.0 | 190.6 | 197.3 | 238.51 | 64.6 |
| nd qur. | 129.9 | 340.7 | 284.6 | 195.8 | 203.8 | 242.27 | 61.5 |
| eb. | 122.7 | 324.2 | 279.2 | 190.6 | 197.3 | 224.86 | 66.0 |
| larch | 125.0 | 331.0 | 280.6 | 191.8 | 198.4 | 238.61 | 64.1 |
| pril | 127.2 | 337.4 | 282.7 | 194.6 | 201.6 | 238.94 | 61.8 |
| ay | 129.4 | 341.5 | 284.6 | 195.7 | 203.2 | 250.67 | 61.5 |
| - | | | | | | | |
| une | 133.1 | 343.1 | 286.3 | 197,2 | 206.7 | 242.27 | 61.5 |
| uly. | | 340.2 | 288.7 | 198.1 | 206.1 | 237.68 | 62.5 |
| ugust | | | | | | 246.8 | 62.4 |

LY QUALIF COUNTAND DOINTMEN! A Peritonic

LAMINSTAIN TO A STATE OF THE ST

HOME NEWS

Court to decide technology ban on UK concern

electronics subsidiary of Britain's Inmos director and the creator National Enterprise Board, be of the company, founded Mostek restrained permanently from in 1969, though he had severed acquiring and using trade section acquiring and using trade section of the sectio acquiring and using trade secrets his connection with it for some

Mostek may also seek to have from a variety or sources waters—the backing for inte-ing Mostek personnel, including specifically, putting it at a severe grated circuits—a week.

Mostek personnel, including specifically, putting it at a severe ing Mostek personnel, including specifically, putting it at a severe grated circuits—a week.

Footscray, which specialises in micro

gaining temporary injunctions Mostek has become a success-against lumos on two counts ful company, employing 4.500 memory), the most advanced relating to trade secrets, but people with a turnover of \$70m. The company recently won a

heart of the dispute are Mr. Mr. David Wooten, an applications engineer. Only Mr. Mostek, with ITT and other
Parkinson had held a senior companies in the U.S. and Japan,

A COURT in Dallas, Texas, is to been director of memory design hear a plea next week that engineering since 1976. Inmos, the U.S.-based micro- Dr. Richard Petritz, another

Texas microelectronics company.

The hearing has been delayed would place Mostek in a position to define trade secrets for itself, evidence. An adverse judgment might jeopardise Inmos's future operations.

Mostek may also seek in have a most and Dr. Schroeger believe that victory for Mostek would place Mostek in a position to define trade secrets for itself, possibly covering a broader area of knowledge than that which was actually secret.

Thus information available

Mostek may also seek to have from a variety of sources would four former Mostek employees disadvantage in relation to now contracted to Inmos whose Mostek and to other advanced resignations from Mostek gave microelectronics companies, computer memories, will expand the world be able to use such its production, especially of the Mostek succeeded this week in technology.

Mostek has become a success memory) the most advanced to the manufacture of microelectronics companies, will expand to the current case.

Mostek has become a success memory) the most advanced to the manufacture of micro-resignations from Mostek has become a success.

relating to trade secrets, but people with a tumboer all some and attempts to stop Inmos hiring last year. It specialises in the company recently won a special second computer technology. Europe. The company recently won a second computer technology. Europe including the manufacture of micro-computer memories, an area in which Inmos will version of the 64K RAM, the next generation memory.

heart of the dispute are Mr. Inmos plans to produce a This expansion will probably Ward Parkinson, a senior design range of microprocessors and take ITT into the ranks of the most advanced random access volume producers of microa draughtsman; Mr. Dennis memory—the 64K RAM—which Wilson, a design engineer; and has a capacity for 64,000 " bytes "

are designing the next-generation However, one of three Inmos chip. Large profits will go to directors. Dr. Paul Schroeder, the company which can first prohad until recently played a key duce a RAM that performs well role in Mostek, where he had in a variety of functions.

Land-Rover meets expansion target

BY KENNETH GOODING, INDUSTRIAL CORRESPONDENT

by next spring.

Mr. Mike Hodgkinson. Land about 300 Range-Rovers and Rover's managing director, gave 1,350 Land-Rovers a week, this news to the 9,000 employees

Plans for the second phase.

Involving expenditure of £250m to increase production or will be submitted to the BL Range-Rover gear boxes at Tyseley Number Two plant,

THE FIRST phase of an expan- Currently, the company claims sion programme at BL's Land around 15 per cent of the world Strathclyde, our Glasgow Corresshould raise Runge-Rover capa- faces increasing competition city by 50 per cent and add 10 from the Americans and per cent to Land-Rover output Japanese.

Productions now stands at

this news to the 9,000 employees yesterday, when he also provided a detailed breakdown of how the first phase cash of £30m is to be spent.

It is part of an overall £380m

They are likely to receive Birmingham.

sympathetic consideration, given
that Laud-Rover can sell all it ham, a new VS engine assembly produces and the waiting list for track has been installed with a its vehicles stretches up to two capacity of over 2,000 units a

Records go in Scotland

SOTHEBY'S annual August Bank "Water Lilies." painted in 1903

Holiday sales at Gleneagies by William MacGeorge; £3,300

Hotel in Scotland were a great for "Washing the Creel" by success, bringing in £393,803 Robert Hutchison; £3,200 from cent.

Manufacturers, which is cambridge BRITISH SHIPPING again made Total earnings for the industry of the market to less than 50 per a record contribution to the last year were £2.6bn, an insuccess, bringing in £393,803 Robert Hutchison; £3,200 from cent.

a current account between balance and a small surplus, a

slight acceleration in the inflation rate and little change in the

This degree of agreement does

not mean, of course, that this is

what will happen, but the wide-

spread expectation of this out-

sector borrowing and monetary constraint allow much scope for imports a substantial fiscal stimulus in

some commentators have sug-

tute has called for further re-

The forecasts are generally on

the basis of existing policies, except that direct tax allowances

are assumed to be increased next spring in line with inflation.

most analysis is that neither the balance of payments nor public Exports

come will influence both markets Gross domestic product

The main conclusion drawn by Consumer spending

the Budget next spring. Indeed Current account (fbn)

gested that existing spending Public sector borowing plans may have to be reined (fbn) back, though the National Insti- Price inflation average

level of unemployment.

and policy makers.

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

SALEROOM BY ANTONY THORNCROFT

"Wuter Lilies." painted in 1903

Percentage change

(at 1970 price)

Expansion rate likely to slacken

ITT plans to invest £5m at British factory

By John Lloyd

ITT, the U.S.-based multinational is to undertake a £5m iovestment programme at its semiconductor plant at Footscray. South East London. It is understood that negotia-

tions on Government aid of a further £1m are nearly complete The expansion is part of a European investment programme of more than £10m. About £5m fabrication plant at the com pany's intermetall plant in Freiburg, West Germany.

The new Freiburg plant will be used to make about 4,000

processors and micro-computer memories, though definitions of

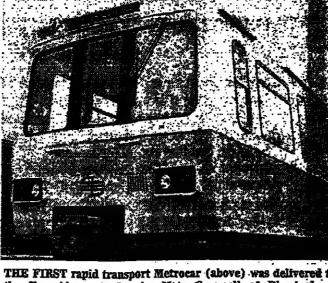
what constitutes a volume

Computer staff needs studied

ducer varw.

FUTURE MANPOWER needs of the UK computer industry will be studied by the Electronics Sector Working Party of the National Development Office.
The £30,000 study is aimed

• HONEYWELL is to start UK range of mini-computers at its ended. Scottish plant at Newhouse, The



THE FIRST rapid transport Metrocar (above) was delivered to the Tyneside yesterday by Metro-Cammell of Birmingham. Altogether, 88 of the cars will operate on the £161m Tyne and

The initial phase was due to open next spring, but because of inter-union dispute it will probably be delayed, says Tyneside Passenger Transport Executive.

Rail and bus drivers' unions are arguing over who should drive the "supertrams," although they have agreed in principle that work should be shared.

There have also been spasmodic delays on construction work for the light railway, believed to be the first of its kind As it stands, the miners motion is probably the most hostile to the Government on the

Monday Club urges direct tax cut

BY DAVID FREUD

simplification in the administrators and an increase in the busi-tion of direct taxation, even if ness relief provisions of capital this meant increasing direct transfer tax.

forward as the main way to because very little of its was paid revive the economy, through encurrently. Instead, the authoricouraging individuals and corties should rely solely on porations to create and expand advanced corporation tax. their businesses and employees The Tory aim of cutting to increase their output.

The issue of shares to improve employment represents to increase their output. Government expenditure would The issue of shares to improve employment prospects, employees was a valuable incen- not worsen them. Sir Keith

● HONEYWELL is to start UK abolished and Government equity spending was paid for through production of its new Level 6 participation in private industry bigher taxes, additional borrowing of mini-computers at its ended.

A BIG cut in direct taxation is income tax should be examined called for by the Monday Club, closely. The investment income the independent Conservative surcharge, should be abolished. Two tax changes of consider

The group said in a policy able advantage to people run-paper released yesterday that the ning small businesses would be cut should be accompanied by a the indexation of capital gains

the UK's position as a producer tive and called for a reduction Joseph, opposition spokesman on of computers and computer technof the public sector. The National Industry, said yesterday, nology.

Enterprise Board should be Sir Keith said wasteful public.

The concept of a negative other words, the Government has income tax should be revived been reducing personal spending

Cutlery prices 'could treble'

Trade, for an urgent meeting. The confederation, so far, has stayed largely on the sidelines, but has now been provoked into action by a memorandum circu-lated by the recently-formed Federation of British Cutlery

Nationa

(August)

2.00 1.60 5.00 2.20 3.70 5.80 7.50 8.70 0.75 0.59 8.50

(july)*

2.75 1.75 5.80 1.00 5.00 4.80 5.50 4.80 0.95 1.18

The explanation is their 1.4m. The only main exception Almost all the projections are are 1.8 and 2.5 per cent.

COMPARISONS OF FORECASTS

July)

2.6 2.5 5.1 3.5 2.7 1.6 7.8 2.4

and OECD figures for 1979 are for first half of year only and are changes compared with secon

half of 1978 expressed at an annual rate, current account also at an annual rate.

comparisons are for consumer prices except for Wood Mackenzie and Hoare Govett where

metrics

2.1 3.3 4.6 3.0 4.3 3.1 9.6 5.8

(August)

Schoo

(June)

2.40 1.80 4.60 2.50 2.90 4.70 7.60 6.40 0.65 -0.05 7.70 9.60 8.80

Centre

(August)

2,90 3,40 5,20 4,30 4,70 6,20 5,30 0,20 0,16 7,75

selected when he also provided a detailed breakdown of bow the first-phase money will be spent.

It is part of an overall £280m investment aimed at nearly doubling production of both Land-Rovers and Range-Rovers by 1982.

Plans for the second phase involving expenditure of £30m is to be spent to increase production of will be submitted to the BL and-Rover plans for the second phase involving expenditure of £250m is to be spent.

All manufacture at Perry long for the second phase involving expenditure of £250m is to be spent.

All manufacture at Perry long for the second phase involving expenditure of £250m is to be spent.

Plans for the second phase involving expenditure of £250m is to increase production of beath be submitted to the BL and-Rovers per long for the submitted to the BL ange-Rover gear boxes at the South Works Soll-bull, to expand painting facilities and improve Land-Rover involving expenditure of £250m investment aimed at nearly doubling production of both Land-Rovers and Range-Rover gear boxes at the South Works, Soll-bull, to expand painting facilities and improve Land-Rover body build times.

All manufacture at Perry long in the second phase involving expenditure of £250m.

Plans for the second phase involving expenditure of £250m in the increase production of increase product and the user home market.

Another £3.2m is being spent to increase production of increase production of increase production of increase product and the user home market.

The UNIMBER of people the about unfair competition if the employed in prediction if the employed in prediction in the employed in prediction in the employed in prediction in pressures from sections of the evidence. The figure would about unfair competition if the industry is incapable of the manufacturery.

Axle manufacture at Perry long in production of the employed in prediction if the industry solve in prediction in the lower paid upwards.

The NUMBER of peop

major split in Sheffield, home of imported cutlery would mean ham based Arthur Price of factors, and the number of work the industry, over the issue of that they would have to go with- England cutlery group, is making ing days lost in stoppages in July protection.

The importers, who have as to spend more than they could with the acquisition of Sanders

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The importance of the number of working had been withdrawing days lost in stoppages in July was the lowest for a year.

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The importance of the number of working had been withdrawing days lost in stoppages in July was the lowest for a year. The importers, who have as to spend more than they could with the acquisition of Sanders much as 90 per cent of the afford."

and Bowers, producers of top market in some products, now Zr. Statham also criticises the quality kitchen knives.

want to put their own case to the industry's delivery performance, Mr. Price, whose company government and have asked Mr. claiming that even in areas already operates two Sheffield figures show a district council said last night. national NUR officials are dramatic fall in the number of disputes, beginning in July this year, at 104 against the June figure of 181.

The decision was made after scheduled to begin further talks between London Transport on economies designed to prune and staff representatives over ESm from London Transport's figure of 181. Michael Meacher, a junior where it remains strong, such factories, claims that the take-Minister at the Department of as the production of traditional over could result in 50 new jobs.

British ships set record

BY IAN HARGREAVES, SHIPPING CORRESPONDENT

Phillips &

Drew

August)

Wood

(June)

2.5 2.8 5.0 2.5 4.0 4.8 4.5 0.0 0.3 8.2 8.8

(August)

3.30 4.90 2.90 5.40 6.00 6.30 5.80 0.85

0.96 7.24

success, bringing in £293,03 Robert Hutchison; £3,200 from over the two days, with five the Fine Art Society again, for artist records among the pictures. The top price, and a John Wells: and £3,000 for record, was £10,000 paid by the "Fortrait of the Artist and his Fine Art Society for "A Wife" by John Aiken, dated Promenade "by George Henry, 1910.

a portrait of two Japanese ladies. Apart from the records. £5,500 first exhibited in the Royal was paid for "The Ghillie's Ardemy in 1912.

The other records were £6,500 for Girl," also by George Henry.

Success, bringing in £293,033 Robert Hutchison; £3,200 from country's balance of payments crease of £143m, including gross of £2.1bn.

Mr. Dennis Statham, the imlast year, although the rate of export earnings of £2.1bn.

Mr. Ronnie Swyne, president in growth slowed down sharply in more restrictions were intro-the face of the industry's world of the council, acknowlegde the part infiation had played in harrier behind which the UK according to figures from the creating the new record, but have increased both receipts of the consumer without ping. UK-owned merchant ships and encouraging achievement in efficiency.

The other records were £6,500 the same sum secured "A Geisha from the Tryon Gallery for Girl," also by George Henry.

THE RATE of expansion of the UK economy is likely to slacken next year though the growth, ance should be better than in the period 1974-77.

The slackening is indicated by a comparison of 10 forecasts of the UK economy carried out by various official, academic and commercial organisations.

However, both the Henley widely differing views of export is Henley which expects a small on the conventional basis of Edeams, representative of the Edeams and is also the most constant 1970 prices to show the Edeams, representative of the Edeams and Plumbing Trades on switchover to a constant 1975 prices to show the Edeams and Plumbing Trades of a versage growth representative of the Edeams and Plumbing Trades of a versage growth representative of the Edeams and Plumbing Trades of a versage growth representative of the Edeams and Plumbing Trades of a versage growth representat

One problem still to be resolved under the settlement formula, though, is the position of pieceworkers, who work mainly in Royal Ordnance factories. Though they are on higher levels of pay, under the current formula they have been

pleceworkers' position at a meeting at the TUC on Monday meeting at the TUC on Monday if nothing is resolved this week. The TGWU's booklet, launched yesterday, called our Policy for the Public Sector, said that the "farce" of the industrial civil servants' negotiations for 1978 highlighted the need for "an urgent look at hargaining procedures in the public service." The union, which has around 220,000 members in its public services group, said that public service workers faced serious and unrasolved pay problems. service workers raced serious and unresolved pay problems.
Local authority workers, whose Stage Four pay claim will be drawn up early next month, are £20 a week behind workers in production industries, and ancil-

Miners fight TUC bid to halt incomes clash

LABOUR

workers refused yesterday to tract ended by substituting the said.

entertain an amendment to their words "incomes policy."

Yesterday's executive noted with the concern the failure of a main motion for Congress put Explaining the union's motives, with concern the failure of a mineral workers. Union and that this question of the social for the Parliamentary seat of designed to take the heat out contract has been deluding a lot Pontefract, a mining town. Mr. of the miners' attack.

However, Mr. Joe Gormley, making a lot of progress. We "very worried" at the way it the miners' president, did not are not making any progress was losing seats.

the transport union's amendment That would leave Congress

with little to argue about in its

agenda. It asks Congress to declare its total opposition to

any proposed extension of the Inking union officers social contract into Phase Four. That of National C Many union leaders argue that, management grades.

MINERS' leaders are to resist while income control must be at all."

TUC efforts to stop their attack- opposed, the social contract as This did not mean the union ing the social contract at next such (under whatever name) can was not going to work for a week's Trades Union Congress and should continue. The trans Labour victory at the General in Brighton.

The executive committee of mise the risk of Congress's after Congress. "You are the National Union of Mine formally declaring the social conentitled to criticise your friends," workers refused yesterday to trans ended by substituting the said.

Pay rise for NUM leaders

economic debata, since a very National Union of Mine-large majority of the TUC workers showed its apprecia-unions appears to agree on a tion of the latest pay philey policy of passive resistance to yesterday by voting itself hig the Government's incomes pay rises to take effect eight policy.

As it stands, the miners for the union's full-time motion is probably the most officials.

Salary increases of hatman

Salary increases of between 6 and 20 per cent will be paid from next March, in a move linking union officers' pay with that of National Coal Board

president, will receive more than £10,000 a year but the president's salary band will have a maximum of £13,600

Area presidents like Mr. Arthur Scargill of Yorkshire will be on a band of £7,393 rising to £9,400 after three years. Junior officials will get between 26,500 and 28,300 a

Dock strike | State workers fight halts BL 5% wage guidelines car exports

been forced to cancel calls at the private sector's Although the industrial atomic challenge to Stage Four.

Mr. Mick Martin, public workers are numerically small, will lose confidence in Britain's sixth largest cargo port.

Yesterday, a Norwegian vessel, was unable to pick up the Bicars for export to the U.S.

June total

In work

below 1977

THE NUMBER of people employed in production in questries rose in June over May but the lower-paid upwards.

The claim includes an increase rates from at Aldermaston, where 12 workers were found to be contained in production in questries rose in June over May but the limitation of militancy, with little tradition of militancy, their position in the wages round gives their claim special workers are numerically small, with little tradition of militancy, their position in the wages round gives their claim special workers employed with industrial workers employed with industrial atomic workers are numerically small, with little tradition of militancy, their position in the wages round gives their claim special workers and for the significance for the rest of the unique state.

Energy Authority and British Nuclear Fuels, said yesterday that the unions wanted to reduce discuss the safety of the Atomic workers were found to be contained with plutonium earlier the lower-paid upwards.

The claim includes an increase this month.

simplification in the administration of direct taxation, even if this meant increasing direct transfer tax.

Changes in taxation were put forward as the main way to revive the economy, through eccurrently. Instead, the authorities should rely solely on porations to create and expand their businesses and employees were at their output.

The issue of shares to employees were at valuable incensive the and called for a reduction not worsen them. Sir Keith and the major to employees were at valuable incensive and called for a reduction and the strike began with a minor worsen them. Sir Keith said wasteful public sector. The National Industry, said yesterday.

Enterprise Board should be industry, said yesterday.

Enterprise Board should be industry said yesterday.

The consent of the U.S. joined the growing in the public sector challenge creases for lower grades. The GOVERNMENT is facing to £54 a week, with pro rata intends transfer tax.

ABOUT 1,500 BL cars bound the growing to the growing to the growing to the growing to the growing the public-sector challenge creases for lower grades. The GOVERNMENT is facing to £54 a week, with pro rata intends transfer tax.

By Pauline Clark, Labour Staff

ABOUT 1,500 BL cars bound the first public-sector challenge creases for lower grades. The GOVERNMENT is facing to £554 a week, with pro rata intends transfer tax.

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ABOUT 1,500 BL cars bound the growing to be strate provided the growing to be facing to be \$54 a week, with pro rata intends transfer tax.

BOUT 1,500 BL cars bound the growing to be store a store of the U.S. joined the growing to be stage of the strike because was a stage of 20 per cent.

Southampton docks yesterday as 5000 atomic power workers in the first public-sector challenge creases for lower g

accepts pay deal

BRITAIN'S LARGEST union, the lary health workers £17.50 leave, an emphasis on fiat rate Transport and General Workers' behind. Public administration rather than percentage increases. Union, yesterday accepted a workers in general earned only stage Three pay setflement for \$1 per cent of the average pay to protect the lower paid against its 90,000-plus members in the for all male manual workers. Increases during the course of industrial Civil Service and Pay settlements over the next launched a major campaign on few years should press a number the union asked for a planning public service pay and employ- of points, including consolidation target of at least an extra 100,000 ment designed to create 500,000 of pay policy supplements into public service jobs a year for hasic rates, increases in holiday the next five years.

voted unanimously to accept the Government's final pay offer to 183,000 industrial civil servants, which would give consolidation of £8.60 of pay policy supple-ments into basic rates and a 9 per cent increase on those rates. The TGWU acceptance of the offer will lead the way for the 11 other unions in the joint co-

a comparison of 10 forecasts of the UK economy carried out by on present policies.

The UK economy carried out by on present policies.

The main feature is a wide measure of unanimity about the prospects for the next 12 to 18 months—a consumer led minimonths—a consumer led minimonth less that is a trates of expansion during the of ils at rates of expansion during the of ils at rates of expansion during the of oil in 1874-75 and the recent account of the basis on which the pro- shown more clearly by looking sharp rise in the relative price consumer is at rates of expansion during the official. But was in the projections are at a states of expansion during the o acceptance. The industrial civil servants are the main group still to settle under the Government's

offered a settlement equal to that offered to workers on the iowest band. Union officials will discuss the

Dfls. 40,000,000.-54% bearer notes 1972 due 1976/1979

BANK MEES & HOPE NV

As provided in the Terms and Conditions of the above mentioned notes Redemption Group No. 1, amounting to Dfls. 10,000,000.has been drawn for redemption on August 23, 1978 and consequently the note bearing consecutive number I and all notes bearing a consecutive number which is 4 or a multiple of 4 higher than I are payable on-

October 2, 1978

Bank Mees & Hope NV (Central Paying Agent) in Amsterdam

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in Luxemburg.

Banque Générale du Luxembourg S.A.

Neue Bank A.G.

August 31, 1978

فيكذامن الممل

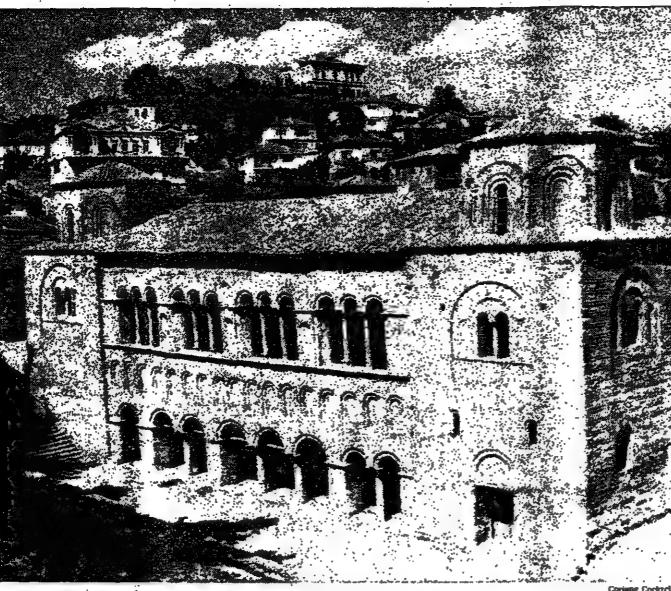
1979 1978-79 1979-80

In his Journals of a landscape pointer in Albania and Iliyria. Edward Lear wrote with enthrasam of the country round Chrid, which he calls by the older name of Akiridha, as "a scene of placid splendour." In the middle of the last century that part of the Balkans was still Turkey in Europe. Boundaries were hazy; races intermingled. Lear calls the "great sheet of water" which is said to be the eldest and deepest in Europe "the first of Grecian takes." but evidently considered himself in Albania, a country whose savage, splendidly attired inhabitants were a source of contempt to his Italian servant, Giorgio. But there were Turkish governors and officials to be called on, and many Greeks and others, distinguished by variously gorgeous and colourful costumes — small groups of such people often appear in Lear's water-colours.

Ohrid now lies in Yugoslavian Macedonia, the Southernmost of Obrid now lies in Yugoslavian Macedonia, the Southernmost of Macedonia, the Southernmost of the country's republics. The further shore of the lake is partly Albania—Sylvie Nickels summarised the complicated history of the region in her travel article of August 12. Much has gone since Lear's time. The foritess crowning the hill is an empty shell—no trace of the Turkish governor's aerail. The "majestic plane" in the middle of the town is still standing—just—but the people grouped below it no longer represent "every variety of picturesque human beings." There are, though fezzes on the heads of the older males of the Turkish community, and though the land is hardly "spangled with minarets" there are still three or four mosques in Ohrid with their pale, pointing fingers a wonderful, elegant way of fixing the attention both of the curious visitor.

The glory of Ohrid, however, less in the late, the late the curious to the curious titles in the late the late the late the late the late of the curious visitor.

The glory of Ohrid, however, lies in the lake—deep turquoise in sunlight and beaten silver under the full moon—and in the numerous Byzantine churches. These have suffered great indignities in the course of history and are much restored.



under the full mone-mad in the numerous Syzantine curreles. These have suffered great indignities in the course of and music administrators from composer called Avramowski, Unfortunately the first two behaved admirably). During the Charlest on the countries are invited two but it bardly stood a chance of the major mes. St. Clement police on a hilling of the countries are invited two but it bardly stood a chance of the strain of the countries are invited two but it bardly stood a chance of the strain of the countries are invited two but it is bardly at the strain of the countries are invited two but it is but in the process, lasped with a collecture of the Wisson and List. Miss Siejanska is part at least of each event is featival with a few short seen, and the control of the Misson and List. Miss Siejanska is part at least of each event is featival with a few short seen, and the countries are in the control of the Misson and List. Miss Siejanska is part at least of each event is featival with a few short seen, and the control of the part at least of each event is featival with a few short seen, and the countries are a time to the countries and the countries are a time to the countries and the countries are a time to the countries and the countries are a time to the countries and the countries are a time to the countries and the countries are a time to the countries and the countries of the countries and the countries of the countries are a time to the countries and the countries of the countries. It is a true to the countries and the countries of the countries of the countries and the countries of th

Berlin Theatre

Comedy, Satire, Irony...

by RONALD HOLLOWAY

Tragedies. It's a grotesque play town with a barbed-tongued poet aimed at the literary world and in rags (named Rattengift), a social manners in Biedermeier drunken schwolmaster who slurs times, one of the best satires in German literature and achieving who gets even with Goethe for in one deft swoop all that the disgruntled poet Heinrich Heine Gretchen fairytale. Any actor tried to accomplish over a lifetime in his Parisian exile. Friedrich Beyer's production at the Freie Volksbühne in West Berlin fits in with the trend to revive Goethe and Schiller on the 100th anniversaries of plays whose grim—nay, black—humour they wrote.

productions ran on consecutive another, the devil engineers a evenings, preceded a similar carnival-like. Shooting-ducks execution scene in a pact with a peymann in Stuttgart, and was matched only by Hansgünther Heyme's Urfaust and Faust II in two parts in Cologne. Since Grabbe's inspiration lets loose a character thrown out of the furnace known simply as "The Devil" throughout Comedy. Satire, Irong and Deeper Menning. Beyer and his borrowed Heidelberg ensemble on the Volksbühne stage are able to parody a monster of their own making. This released pressure valve amounts to an hilarious spoof on German classical theatre as a whole.

the venom was, in all proba-Brenton, the playwright, bility, aimed at the Schlezel-Aged 35. Mr. Brenton, a Tieck Romantic translations) graduate in English at the Born in Detmold, his attempts at University of Cambridge, has

Christian Dietrich Grabbe's tion of Grabbe is twofold. There's Comedy, Satire, Irony and great fun in store when actors Deeper Meaning (written in can bite the hands that feed 1827) insulted Goethe and them: all the cliches in German Schiller in the same way as theatre, particularly the classics. Cyril Tourneur's The Revenger's are hammed to the limit in this Tragedy put down Shakespeare's ghastly portrait of a provincial tragedy of the a greatesque play town with a harbod torqued possess.

the 100th anniversaries of plays they wrote.

Beyer comes from Heidelbers, where he produced Goethe's springs to life as Rattengiff functions ran on consecutive evenings, preceded a similar carnival-like, shooting-ducks execution scene in a next with a part with a resemble to Goethe by Claus

speed on German classical theatre as a whole.

Grabbe, in turn, was influenced by the young Goethe and Byron, at the University of Warwick, also by Shakespeare whom he attacked indirectly in his Arts Council, and an appoint Trentise on Shakespearo-Mania ment has been made—Howard J.

Born in Detmold, his attempts at University of Cambridge, has acting and free-lance writing, inacting and free-lance writing, inacting and free-lance writing, inacting and free-lance writing, inadvands: the John Whiting
come as he hardly fitted the Award (1971) and the "Evening
mould: he was a forerunner of Standard" Best Play of the Year
Realism and Expressionism, Award for Weapons of Happiness
whose heroes were given to (1976). In 1972-73, he was
irony, violence, and a pessiirony, violence, and a pessiirony, violence, and a pessimistic nihilism. He died of Cont Theatre, London. Mr.
alcoholism at 34.

The magic in Egyer's produc-

Albert Hall/Radio 3

Les Boréades by Ronald CRICHTON

Rameau died in 1764 while his may not be the high drama and Jennifer Smith sang the heroine last opera. Les Boréades was in human involvement of Hippolate rebearsal. The Paris Opera human involvement of Hippolate where the work was in preparation, substituted one by Campra, speciacle of Les Indes guiantes or though Rameau's was well the pagan earthiness of The Feasts apollo. The Sun-God finally advanced. Rameau was old of Hebe. But there are many intervenes and puts the two other things prophetic of the something that matters incomparably more in Paris than in London. He was also, as a ing horns wafting through the powerful and articulate person-ality, someone to be feated by less than in powerful and articulate person-penning scenes, the virtual joinality, someone to be feated by less than in the articulate person-ality, someone to be feated by less than a specially in a fine through the powerful and articulate person-ality, someone to be feated by land of the third set to the fourth. There are in addition remarks was a young tenor, Paul Poser. So Les Boréades lanespecially in Art 3 where the guished in the archives, unheard laws Boread princes are involved with tone that remained almost

reign as rrance's leading composer. So Les Boréades lan-especially in Act 3 where the guished in the archives, unheard two Boread princes are involved in its entirety until John Eliot with a cello continuo that continuo that continuo that in the Elizabeth Hall been provided by Thea Musgrave, in 1975. The opera still awaits but also other things not quirky staging and publication, but the or eccentric—a marvellous taging and publication, but the contain with a cello continuo that uniformly clear and sweet, Jean-Claude Orliac and Christopher Booth-Jones sang the two Boreads. Alain Fondary, a bass trees alough ground that the analysis ground Uniformly clear and Sweet, Jean-Claude Orliac and Christopher Booth-Jones sang the two Boreads and christopher and provided by The a marvellous tike a young Julies Bastin. Was a resonant Wind-God. The experienced but on this occusion rather rasping Pierre-Yves Le Maigat doubled Apollo with his own high priest. Anne-Marie Rodde and Emma Kirkby filled the as usual rewarding fringe parts, Trever Pinnock, Jonathan Hinden and Marilyn Sansom supplied the continuo. They, with the orchestra and chorr, contributed handsomely to a long acts plausibly introduced. There his usual drive and energy.

Philharmonia in good shape

The Philharmonia Orchestra has "never been in better shape financially and artistically," according to its president Ian Stoutzker who introduced the Orchestra's plans for the 1978-79 season yesterday. There was a surplus of £4.000 during the pust season yesterday. There was a surplus of £4.000 during the pust season pringing the accumulated reserves to nearly £60.000. This good result was achieved by working on 180 recording many years, he said the replacesessions and performing nearly 100 concerts. Subsidy provided 18.7 per cent of the income and private sponsorship 5 per cent.

The new season will be built around three major cycles— performance of all six month to Lnz. In 1979 trips are chairworkly symphonies, under planned to Barcelona. The Philharmonia's principal conductor Lorin Maheler symphonies, with the planists for the season include Mahing. Farnham May 24: Payis. Other highlights will be Milstein, Kyung-Wha Chung. Club. Heathfield, Sussex, June 16.

NOTICE OF REDEMPTION

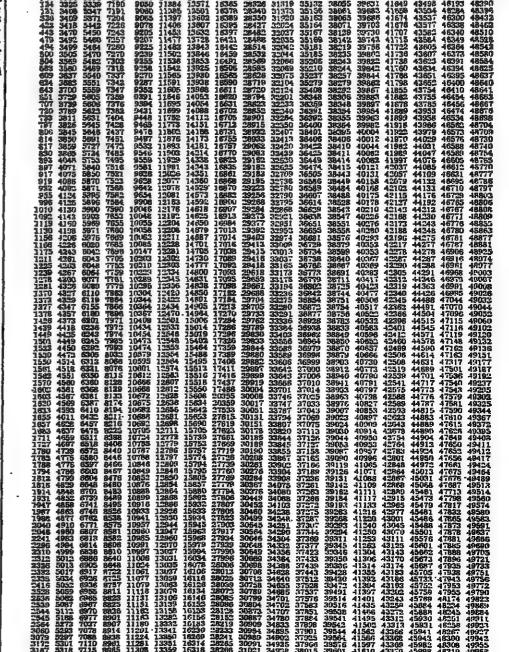
To the Holders of

ENTE NAZIONALE IDROCARBURI

(National Hydrocarbons Authority) 7% Sinking Fund Debentures due October 1, 1981

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Sinking Fund for the Deben-tures of the above-described issue, Morgan Gustanty Trust Company of New York, as Fiscal Agent, has selected by lot for redemption on October 1, 1978 at the principal amount thereof \$1,666.000 principal amount of said Debentures bearing the following serial numbers:

DEBENTURES OF U.S. \$1,000 EACH



On October I, 1978, there will become and be due and payable upon each Debenture the principal amount thereof, in such coin or currency of the United States of America as on said date is legal tender for the payment therein of public and private debts, at the onition of the holder, either (a) at the corporate trust office of Morgan Guaranty Trust Company of New York, 15 Broad Street, New York, N.Y. 19015, or (b) subject to any laws and regulations applicable thereto with respect to the payment, currency of payment or otherwise in the country of any of the following offices, at the principal office of Banca Nazionale del Lavoro in Rome or the principal office of Banca Commerciale Italiana in Milan or the main offices of Morgan Cuaranty Trust Company of New York in London. Brussels, Paris or Frankfurt or the main office of Algemene Bank Nederland N.V. in Amsterdam or the main office of Kredietbank S.A. Laxembourgeoise in Laxembourge-Ville.

Bussels, Parts of Frankfurt of the main other of Algemente Bank Accordance N.V. in Amsterdam of the main office of Kredierbank S.A. Laxembourgeoise in Laxembourg-Ville.

Debentures surrendered for redemption should have attached all unmatured coupons appurtenant thereto. Coupons due October 1, 1978 should be detached and collected in the usual manner.

From and after October 1, 1978 interest shall coace to accrue on the Debentures herein designated

ENTE NAZIONALE IDROCARBURI By: MORGAN GUARANTY TRUST COMPANY

OF NEW YORK, Fiscal Agent

August 21, 1978

NOTICE

The following Debentures previously called for redemption have not as yet been presented for payment: DEBENTURES OF U.S. \$1,000 EACH

34 1380 8837 14115 14116 14118 14119 28195 28197 23040 33323 43332 **43**374

Me bake

Ruffled Feathers

by MICHAEL COVENEY

"They're adoring every minute of watching our marriage disintegrate" wails Bridget Bonivinni (Judith Paris) in a West End cinema bar on the night of a royal premiere. The film. starring Glenda Jackson and George Segal, apparently a requel to A Touch of Class, has been scripted and directed by her ex-husband Dougal Young (John Castle). He joins her beneath a blow-up of Clark Gable to resume hostilities and reveal that the George Segal part, a slob and a bore, is based not on himself, as she thinks, but on her frailties and shortcomings. He is Glenda Jackson.

This slight lunchtime piece by David Sullivan Proudfoot and Andrew McFarland is an odd neo-Cowardian confection to find on the London fringe. As many lines sparkle as fall flat, but there is one particularly good

Books page will appear in tomorrow's paper

sequence of dialogue climaxed by Miss Paris's defence of having auditioned 50 nude men for her work as a sculptor by remonstrating that the escapade was a justifiable part of her research on a Paraguayan war memorial. Apart from that, there are amusing flashbacks to a flamboyant matrimonial period of alcoholic bad temper, nicknames and putting the children

Under Bille Brown's direction, the playing of Mr. Castle and Miss Paris (who, incidentally, is alist Paris (who, incidentally, is currently appearing in Annie as Warbuck's secretary) is well-controlled and cleverly paced. The writing's flimsily soft centre is nearly disguised, in fact, by the guarded energy on stage as the contestants stalk each other before flaring into combative before using the comments of compromise in the shape of working together on the next chematic raid of their not very



How not to take

the decline and virtual collapse of the nuclear engineering industry. As Mr. Duncan Burn argues in an absorbing and persuasive book*, the important question is the deep-seated distrust, by no not, why did Ministers make so means confined to the Labour many mistakes for so long, but "why did Ministers and civil Party, of competition and the profit motive. Many people seem to believe that the "national of the mixed economy interest" is more likely to be interest is more likely to be interest. try. As Mr. Duncan Burn argues

arbiter of reactor choice. It left to industrialists. arbiter of reactor choice. It left to industrialists.

depended almost exclusively on the Atomic The only way to counter these technical advice from the Atomic The only way to counter these arguments is by analysing in competition and showed a detail the consequences of past marked preference for British decisions and by designed reactors even when the demonstrating how other counders of the season, has sure with the Eclipse winner. Gunner prised a good many experienced B, who has now been earmarked under a Nottinghamshire town, are designed reactors even when the demonstrating how other counders of the season, has sure with the Eclipse winner. Gunner prised a good many experienced B, who has now been earmarked under a Nottinghamshire town, are designed reactors even when the tries, relying more on competition. main utility, the Central Election, tricity Generating Board, wanted results.

V/Radio

BBC

6.40-7.55 am Open University (Ultra High Frequency only). 8.55 Paddington. 10.00 Jackanory. 10.15 Help: It's the Hair Bear Bunch.

British tendency to create stateowned monopolies and to concentrated and some degree and technical effort have to be centralise decision-making in the concentrated and some degree hands of Ministers. The free monopolies, and the Ministers far too readily accepted. There over them, are not subject to pormal commercial disciplines, but are highly vulnerable to political pressures. To demand that Ministers should be made more accountable, as Members that the domestic market for of Parliament have been doing certain products is too small to more accountable, as Members that the domestic marker for more accountable, as Members that the domestic marker for precently, is not the point. What is wrong is the system which national enterprise, but the need requires Ministers to take in several of these industries is dustrial and commorcial decisions for international groupings of this kind.

Another striking illustration is the decline and virtual collapse

Disinterested

advocates of the mixed economy interest" is more likely to be bappened go on thinking, that safeguarded by Ministers than by competition among commercial enterprises which stand to Mr. Burn shows that in the U.S. the Administration couraged manufacturers and utilities to make their decisions they make. According to this school of thought, it may look odd for Ministration couraged manufacturers and may look odd for Ministers to be utilities to make their decisions deciding which civil airliner to an nuclear reservors on the basis on nuclear reactors on the basis build, where a new steelworks of commercial self-interest; comshould be located or what type

to note his seventh victory pating approaches were wellcomed. The British Government, by contrast, was the sole
arbiter of reactor choice. It

leading manufacturer and the tries, relying more on competi-main utility, the Central Election, have achieved better

Perils and pleasures of tastings

decisions

By Geoffrey own

If ONE were booking for a man and their civil service above an interpretable throughout the fine throughout through the fine throughout the fine throughout the fine throughout throughout the fine throughout throughout throughout throughout the fine throughout througho

Much improved Abdu napped to win his seventh victory

MANOR FARM BOY, astutely getting up close home to defeat placed to land seven of his 11 General Atty in the Bagworth two-year-old races, took the Stakes on the Midlands course. Perebrown Stakes at Yarmouth a year ago at 9-2 on and it will be interesting to see if Bill O'Gorman his handler, can do the trick again through Abdu.

The Newmarket trainer, who is Goodwood's New Hom Stakes.

RACING IT DOMINIC WIGAN

campaign with Abdu, and this

12.00 Weather Regional News.

forecast purposes, the lightlyraced Thatch colt Quantum
Major, a bay son of the fivetimes two-year-old winner Smart
Shella, looks to be the answer.

Hot spring manufacture of the fivetimes two-year-old winner Smart
Shella, looks to be the answer. Looking ahead to Ascot, Henry

Leicester. However, Newmarket is Government researchers are
After winning by a comfort certain to have at least one preparing a report for Newark
able 21 lengths from the odds-on resolute challenger for the District Council saying that there

Coupland.

ATV

A.I.V.
Battleground. 11.10 Spiderman. 11.30 Sattleground. 11.10 Spiderman. 11.30 Magic Circle. 11.55 The Adventures of Pareley. 1.25 an ATV Newsdesk. 1.38 England Their England. 2.00 Summer After Noon. 2.25 Battle for Sarvival. 1.20 The Filmstones. 3.50 Three For The Road. 6.50 ATV Today. 1.20 Crossroads. 11.50 Dan August.

CHANNEL

YARMOUTH 2.15—The Bedford** 2.45-Fast Bowler 3.15-High Roller 3.45-Irish Noble 4,15—Abdu*** 4.45—Ellidiana*

strides from the post.

The pair were followed home from a burst blood vessel, by Cap Ferrat, himself a winner suffered in Deauville's Prix four times from six attempts. Jacques Le Marois, will be Provided that Abdu Is none syndicated by the British Blood-the worse for his hectic camstock Agency. Judged on his paign, he ought to have few exploits of late, he could wind problems from Foetsjie, Superb up with a full book next year, in Lady and Quantum Major. For contrast to the handful of mares forecast purposes, the lightly-who wighted him last year.

Hot spring may

tricity Generating Board, wanted to go for the American-designed light water reactor, as most other energy crisis, by Duncan Burn.

Alternatively, the countries had done.

Wixee Belle over six furlongs on Ascot race as Clive Brittain is probably enough heat to supply the July course, Abdu showed intends to saddle Radeztky. 500 homes. Alternatively, the that there is no more determined This will be the final race for the bolling water could go to industrial in the IIK Ministers Research Centre, £12.00.

HTV

ENTERTAINMENT GUIDE

HAYMARKET, 930 9832. Eves. 8.90. Wednesday 2.30. Saturday 4.30 & 8.00. HARLY SCOTIELD. HARRY ANDREWS
ELEANOR FRON, TREVOR PEACOCK and IRENE HANDL In A FAMILY.

A new play by KONALO HARWOOD Directed by CASPER WREDE
"An additable play, homes, well conceived, property worked out, freship and fittingsity written, fichly satisfying. Paul Scopeid at bis bast," E. Levin, S. Times. SAVOY THEATRE 01-836 5888.
Credit cards 734 4772 Tom Conti in
WHOSE LIFE IS IT ANYWAY?
WHO JANE ASTER
"A MOMENTOUS PLAY I URGE YOU
TO SEE IT." Guardian.
EVEL at 8.0. Fri. and Sec. S.45 & 8.45.

THEATRES

ADELPHI THRATRE CC. 01-838 7811.
LAST 7 WEEKS. MUST END OCT: 14.
Evgs. 7.30. Mats. Thurs. 30. Sec.
(RENE IRENE IRENE IRENE
OF 1976, 1977 and 1978;
(RENE IRENE IRENE
ERENE IRENE IRENE
LONDON'S BEST NIGHT OUT"
SINGAY PEOPle. Sunday People, CREDIT CARD BOOKINGS 836 7611

ROYAL SHAKESPEARE COMPANY ROYAL SHARESYZARS COMPARY
TOnight, Tomor, 7,30, 5st. 2,00 and 7,30.
Final parts. Scringberry's THE DANCE OF
DEATH "emeries as a wooderful plect
of week" Times. Wife: Snikmberry's A'
YOU LIRE IT from Tues.), RSC also al
THE WAREHOUSE use under W). ARTS THEATRE, 01-836 2122.
TOM:STOPPARD'S
DURTY LINEN
"Hilarious . . . see it." Sunday Times.
Monday to Thursday 8.30, Priday and
Sandray as 7.00 and 8.15.

7.45 "Bless This House," starring 11.45 Ryan, 12.55 am A Little Night Sidney James and Diana Music. AMBASSADORS. CC. 01.335 1171.
Nightly at 8.00. Mistinger Tues, 2.45.
Saturdays at 5 and 6.
PATRICK CARGILL and TONY ANHALT
IN SLEUTH
The World-Famous Thritier
by ANTHONY SHAFFER
"Seeing the play again is in fact an other and total joy." Funch. Seat prices
\$2.00 and \$4.40. Dimer and top-price
seet \$7.50.

CHICHESTER.
Today at 2.00. September 1 & 2 at 7.00.
Today at 7.00. September 2 at 2.00.
Tonight at 7.00. September 2 at 2.00.
LOOK AFTER LUIS

COMEDY, Eygs. Mos. Fri. 8.00, Set. 5.00 and 8.30.

Mat. Thurs. 2.00

EDWARD WOODWARD

BARBARA JEFFORD in

THE DARK HORSE

"Excellent family entertainment anyone of any age is likely to enjoy," S Tel.
"Damned good theatre," Sun. Timeshamillent anyone to fam. All age. The amily a minute. D. Tel. "Opportunities brillantily seized by first-rate cast. A most attractive and entertaining evening." E.N.

APOLLO. 01-437 2863. Evenings 8.00.
Mats. Thurs. 3.00. Sat. 5.00 and 8.00.
DONALD SINDEN
"Actor of the year." Evening Standard
"IS SUPPRE," No.W.
SHUT YOUR EYES AND
THINK OF ENGLAND
"Wickedly formy." Times. SCOTTISH

SCOTTISH

19.28 am Valley of the Dineasury. 10.48
Junior Matineo: "Regues of Sherwood
Forcat" starring John Derek. 1.25 pm
News and Road Roport. 1.30 Wild, Wild
World of Animals. 2.69 Women Only.
4.20 Doctors Sense on the Loose. 5.45
Scotland Today. 5.59 Gardeck Way. 7.29
The "21" Show. 8.39 Thingummyrig. 9.88
Something Extra Spocial introduced by
Gordon Honoycombe. 11.08 Late Call.
11.18 Richie Brockelman. ASTORIA THEATRE. CC. Charing Cross
Road, 01.734 4291, Mon.-Thurs. 8 pm
Fri. and Set. 5.00 and 8.49. (Buffer,
food available).

"Infectious, aspealing, foot stamping and
heart-thumping." Observer, Seats £2.00\$2.00. Helf-hum observer show best avail,
able seats £3.00, Mon.-Thurs. and Fri.
BEST MUSICAL OF THE YEAR
BYENING STANDARD AWARD

SOUTHERN SOUTHERN

18.28 am Woody Woodpecker, 18.68

"Abbott And Costello Go To Mars."
1.28 pea Southern News. 1.30 Survival.
2.80 Women Only. 6.50 Day by Day.
7.15 Backs to the Land. 18.60 Southern
News Extra. 18.10 Danger in Paradise.
12.18 see What The Papers Say. CAMBRIDGE, CC. 836 5056. Most to Thurs. 8.00. Frt. and Sat. 5.45 and 8.30. Frt. TOMB! Exciting Black African Mosical "Factor with variety." Daily Mirror. Seat prices 52.00-55.00. THIRD GREAT YEAR Dinner and 109-9rice scaps 48.75 incl.

TYNE TEES

1.25 am The Good Word followed by
North East News Headlines. 112.28
Morning Movie: "A Tale of Two Cilies"
Sarring Dirk Bogarde. 1.20 pm North
East News and Lookaround. 4.20 Beach
combers. 6.50 Northern Life, 11.00
Rafferty. 12.20 Epilogne. CHANNEL

1.38 pm Channel Lunchtime News and
What's On Where. 4.20 Fanfare. 5.25
Channel News. 5.15 Carnom. 6.50 Eurobean Athleties Channel Late News. 10.32
Down The Line. 11.00 The Andy Williams
Show. 11.30 European Athletics. 12.00
News and weather in French. ULSTER

18.26 atm Morning Movie: "Tarsan's
Three Challenges" starring Jock Mahoney,
1.20 see Lunchtime. 4.18 Uister News
Headlines. 4.26 Cite Cith. 6.50 Reports,
7.25 Want A Job, 7.25 Crossroads, 11.86
Old House, New Home. 11.30 Bedtime.

WESTWARD

This man World, 19.66 Tree

WESTWARD

18.20 am Untamed World. 19.00 Tree
Top Tales. 11.90 Clapperboard. 11.0 The
Gene Machine. 12.27 pm Gns Honeybun's
Birindays. 1.20 Westward News Headlines. 4.28 Fanfare. 6.85 Westward
Diary. 6.50 European Athletics. 7.20
Crossroads. 19.28 Westward Late News.
19.30 Down The Line, 11.80 The Andy
Williams Show. 11.30 European Athletics
Championships. 12.09 In Search of
Voodoo. 12.30 am Faith For Life.

VODE STHIP F pm Rainbow. 12.30 Doctor! 1.00
pm Rainbow. 12.30 Doctor! 1.00
News plus FT index. 1.20 Platform.
1.30 Young Ramsay. 2.25 Breakdown. 3.20 Quick on the Draw. 3.50
The Sullivans. 4.20 Dynomutt. 4.50
European Athletics.
European Athletics.
6.35 ITN News.
6.35 ITN News.
6.36 Crossroads.
7 15 Survival.

GRANADA
Voodoo. 12.30 am Factor
YORKSHIRE
Noodo News. 4.20 The White Stone
1.35 The Woody Woodpecker Show.
6.36 Crossroads.
7 15 Survival.

Washer (S). 1.50 Devs. 6.30 Rain of Britzi
Ten News. 7.35 The Archers. 7.

NER MAJESTY I. CC. 01-930 9608
Evgs. R.O. Matiness Thur. & Sat. J.

"INSTANT INCHANTMENT Coserve
THE MATCHMAKES
A Comedy by Thorston Wilder. "It go down with a deserved rous of delight D. Tel. For a limited sesson until Oct. 14 BANNETTA COCHRANE. 01-242 7040. National Youth Theatre. A new play by Poter Terson, SOLDIER BOY. Evas. 7.30. LAST 3 DAYS. KING'S ROAD THEATRE. 01-352 7488. Men. 50 Thurs. S.O. Fri. Set. 7.30, 9.30. THE ROCKY HORROR SHOW DON'T DREAM IT. SEE IT. ONDON PALLADIUM, 01-437 7372, 3802, 25. For One Week Only. LENA MARTELL MICHAEL BENTINE, WAYNE KING

OLD VIG.

PROSPECT AT THE OLD VIC

Bern Reid and Anthony Quale in

THE RIVALS

Shoridan's comedy, with James Aubrey,
Isla Blair, Kenneth Glibert, Carol Gillies,
Matthew Guinness, Mol Martin, Trevor

Martin, Christopher Neame, Opens Sept.

4, 700. Previews today, Fri., Sat. 7,30.

PICCAPILLY. From 8.30 a.m. 437 4506.
Credit Cards 836 1071 Mon. Thor. 5.
Fri. 5 Sat. 5 & 8.15. Air cond. "Dominating with unfettered queto and humbur the BROADWAY STAR." D. Exp.
"Towering performances." D. Mali.
"Towering performances." D. Mali.
"Works like mask.," Financial Times,
"Thore has hardly been a more satisfying evening in the West End. the BEST CAMIC WRITING IN LONDON." Obs.
COMIC WRITING IN LONDON." Obs.
Thore has hardly been a more satisfying evening in the West End. the BEST CAMIC WRITING IN LONDON." Obs.
Thore has hardly been a more satisfying evening in the West End. the BEST CAMIC WRITING IN LONDON." Obs.
The Timen in the BEST CAMIC WRITING IN LONDON." Obs.
HYPNOTIC EFFECT. D. Mali.

PALACE CC. 01-437 6534 Mon.-Thurs. 8.0. Fri 5 534 6 & 840. JESUS CHRIST SUPERSTAR by Tim Rice and Andrew Lloyd-Wrober.

PHOENIX.-DI-S36 2294. Evenings at 8.15.
Mats. Wed. 3 D. Saturdays 6.00 & 8.40.
TIM: SROOKE TAYLOR: GRAEME
GARDISH make us laugh." Dully Meil.
The HR COMMISSION RYSOLUTE
LAUGH. WHY THE LOVE RYSOLUTE
HAVE DIED. Sonday Times. "SHEER
DELIGHT." Eve. Standard. "GLORIOUS
CONTINUOUS LAUGHTER." TIMES.

PRINCE EDWARD. CC Iformerty Casinol.
01-437 56377. Performaces This Week
Evgs. 8,0. Mat. Thur. 3-0. 3at. 3.0. 8.0
NOTE CHANGE OF SAT PERFS.
From Sept 2. Sits. 3.00 and 8.00.
EVITA
by Tim Rice and Andrew Llovd-Webter.
Directed by Harold Prince.

CRITERION, 930 3216, CC. 836 1071-3, Evgs. 8.0, 5at. 5.30, 8.30, Thurs. 3.0, NOW IN ITS SECOND YEAR LESLIE PHILLIPS IN SIX OF ONE A HALF, DOZEN HILARIOUS YEARS Very fusiny." Sun. 7el. PRINCE OF WALES. CC. 01-930 8681
I AST 6 WEEKS. MUST END OCT. 7.
Evgs 8.0. Saturdays 5.30 and 8.45.
THE HILARIOUS
I THE HILARIOUS
I LOVE MY WIFE
LOVE MY WIFE
CREDIT CARD BOOKINGS 910 0846. Sat. 0.00. Matiness Wed. and Sat. 3.00.
A CHORUS LINE OUEEN'S. Credit Cards. 01-734 1166. Evgs. 8.00. Wed. 3.00. Set. 5.00. 8.30. GEORGE CHAKIRIS

"A rare, devastating, loyous astonishing stonner." Son. Times. 3rd GREAT YEAR. ROY DOTRICE

RICHARD VERMON, JAMES VILLIERS
RICHARD VERMON, JAMES VILLIERS
"DAZZING" & SERO, "THRILLINGLY
ENOTIC" DB. "HIDEOUSLY SNJOYABLE AND CRUINE TERROR" S.
TIMES. "GOOD CLEAN GORY FUN"
S MIT, "MOST SCENICALLY SPECTACULAR SHOW IN TOWN " Punch. DUCHESS. 836 8243, Mon. to Thurs. Evenings 8.00. Prl., Sat. 6.15 and 9.00. OH! CALCUTTA! The nuclity is stunning." Daily Mall. Sth Sensational Year. DUKE OF YORK'S. CC. 01-836 5122

RAYMOND REVUEBAR, CC. 01-724 1593 At 7 p.m. 9 p.m. 11 p.m. Open Suns. PAUL RAYMOND PERCENTS THE PESTIVAL OF EROTICA Fully alr-conditioned 21st SENSATIONAL YEAR: "BURSTING GOOSPELL
"BURSTING WITH ENJOYMENT "D.Tel.
Prices £2 to £5. Best seats £3. 'hour
before show at Box Office Mon.-Thurs.
Fr. Mat. all seats £2.50. Evgs. 8.15. Fr.
and Sat. 5.30 and 8.30, FORTUME. 838 2238. Eve. 8. Thurs. 3.
Murtel Pavlow as MISS MARPLE in
MURDER AT THE VICARAGE
FOURTH GREAT YEAR

REGENT (Daford Circus), 01-537 9862-3.
Evgs. 8.30. Mats. Frt. and 5-t. 6.00.
TAKE THE FAMILY TO
THE GREAT AMERICAN
BACKSTAGE MUSICAL
"Smart swell show" Daily Everess.
"So colovable." Sunday Times.
"Lyrics have more elegance than those for EVITA music more byte than those for EVITA than those for EVITA credit Card bookings—Seats from £2 GARRICK THEATRE. CC. 01-836 4601.
Eves. 8.15. Wed. 3.0. Sat. 5.30 8.30.
TIMOTHY WEST. GEMMA JONES.
MICHAEL KITCHER
IN HAROLD PINTER'S
THE HOMECOMING
"BRILLIANT. A TAUT AND EXCELLENTLY ACTED PRODUCTION." D. Tel.
AN INEXHAUSTIBLY RICH WORK."
Gaardian. "NOT TO BE MISSED." Times. RIVERSIDE STUDIOS. (01-748 3354.) Proviews 29 Aug-3 Sep. 7.30 s.m The CHANGELING. Director PETER GILL ROUNDHOUSE DOWNSTAIRS. Q1-: 2564, National Youth Theatre PETTICOAT REBELLION. Evs. 7.30.

GLOBE THEATRE. 01-637 1592.
Ever. 8.15 'Wed. 3.0. Set. 6.00. 8.40.
PAUL EDDINGTON. JULIA MICKENZIE.
BENJAMIN WHITROW IN
ALAN AYTKBOURNS New Comedy
Tan Times Table:
"This must be the happiest laughtermaker in London" D. Tel. "An Irresistliby enjoyable evening." Sunday Times. GREENWICH THEATRE. 01.85E 7755.
WILLIAM DOUGLAS HOME'S
NEWEST PLAY
THE EDITOR REGRETS
Evenings 8.00. Saturdaya 5 and 8.

THEATRES

SHAFTESBURY. CC. 01-836 6596. 01-838 4258. Half-price Previews from September Coerts September 13. TENERICE STAMP With DEREK GODFREY

TRAND. 01-836 2650. Evenings 8.00.
Mal Thurs 3.00. Saturdays 5.30 6 8.30.
NO SEX PLEASE—

THE SHIPM
LONDON'S LONGEST LAUGHOVER 3.000 PERFORMANCES
GOOD SHATS 64-50-\$1.50.

TALK OF THE TOWN, CC. 01-734 E051. Air Conditioned from a Dining-Dencing B.30 SUPER REVUE REXTLE DAZZIE At 11 PHTER GORDENO

WINDMILL THEATRE. CC. 01-437 6312.
Twice Nightly 6.0 and 10.0
PAUL RAYMOND presents
RIP OFF
THE EROTIC EXPERIENCE OF THE
MIGGEN ERA
"Takes to unprecedented limits what is

"Takes to unprecedented limits what is permissible on our stope" Evs. News THIRD GREAT YEAR WYNDHAM'S, 01-836 3028. Credit Card
Bkgs. 836 1071 from 8.30 p.m. Mon.,
Thur. 8.0. Fri. and Sst. 5.15 and 8.30,
"ENORMOUSLY RICH
WIRY FUNNY." Evening News,
Mary O'Malley's smass-hit comedy
ONCE A CATHOLIC.
"Supreme comedy on sex and religion,"
Dally Telegraph,
"MAKES YOU SHAKE WITH
LAUGHTER," Goardan,

Supplem

aising at 1

YOUNG VIC. 928 8363. Opens 17 Sept. for 2 beecks only. PETER BROOK'S famous Paris production of Airred Larry's force uses (in French). Eves 7.48 (18 Sept. 7.18). All sests \$2.50 (17 Sept. 51.50).

CINEMAS ASC 1 & 2. Shaftesbury Ave. 838 8861. Sep. Perfs. All Seets Bible. 1: 2001: A SPACE ODYSSEY (I) 70mm Sim. Wk. & Sen. 1.30, 4.35, 7.55. 2: CONVOY (A), Wk. & Sun. 2.00, 5.20, 8.20. Late show Fri. & Sec. 11.20,

CAMBEN PLAZA (opp. Camden Town Tube) 485 2443. Max Oppula greatest sim LOLA MONTES (A). 4.29, 5.30, 8.50. ENDS WED. CLASSIC 1, Z. S. 4. Oxford Street tone.
Tottenham Court Rd. Tubes. 538 0310.
Special Season of Film Entertainment for
Children tand Adults. One price 50p.
Mon.-Fri. 11 am. Doors 10,45 a.m.
MAURO THE GYPSY (UI). THE SKY
PIRATES (UI). THE SAME (AL). Streepshoke
school Late Show Led Zepperin THE SONG
ASOL Late Show Led Zepperin THE SONG
SOURD. THE SAME (AL). Streepshoke
22 Kris Kristofferson CONVOY 4A). Progs.
1.40, 4.00. 6.20, 8.40, 11 pm.,
31 FM (AL). THE WAITERS (UI). Fross.
1.00, 3.30, 5.00, 8.30, Late show 11 pm.,
4: Wait Disney's HERBIE GOES. TO
MONTE CARLO (UI). Progs. 1.30, 3.40,
5.55, 8.05, Late show THE TEXAS
CHAIN-SAW MASSACKE (K-GLC) 11 p.m.

CURZEN. Curzon Street. W.1. 499 3737.
(Air-Conditioned). LAST WEEK'S DURZU
UZALA (U) in 70 mm (English sub-titles)
UI by AKIRA KUROSAWAMASTERPIECE. Times. MASTER
WORK. Observer. "MASTERPIECE."
News. Film 2.0, 5.43, 8.20, Sun. 4 & 7.

LEICESTER SQUARE THEATRE 1930 52521
F.I.S.T. (A). Sep. Perfs. Sun, J.30.
7.45. Wks. 1.00 4.70, 8.10. Lale
Night Show Fri. & Sat. 11.45 pm; 8.70
perf. bloble, Mon. Fri. All perfs. bloble, Sat. 8.10.
Sat. & Sun, except Late Night Show.

ODSON, MAYMARKET, 1930 2738/2771).
MIDNIGHT EXPRESS (X). Sea. GrodsDiv. at 2-30. 5-30. 8-30 pm. Late short 11-15 pm prog at 11-45 pm. Alt assis bible. ODEON, LEICESTER SQUARE, (\$30 511)
REVENGE OF THE PINK PANTHER (AL.
See, Progs. Div. Doors oven 1.45, 4.36, 7.45, Laite shows Thurs. Fri. Sat. Doors
open 11.15 pm. All sees obble, at 38
Boy Office or by Post, except Trees.

DDEON, MARBLE ARCH. W.Z. 2713 20112) CLOSE ENCOUNTERS OF THE THIRD KIND A. SED Bross, 4644 open open Mon.Fri. 200 7 750. SEL 1.05. 4.15. 7.45. Sen. 3.00 7.30. Late Show Fri. & Sat. Doors open 11.15 Mes. All Seats basis.

PRINCE CHARLES, Leic. Sq. 437 8181.

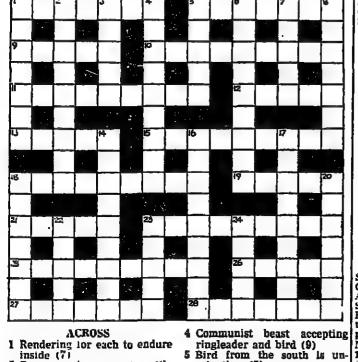
Mel Brooks

High Armitery (a)

Sep. pers. Gally fluct. Sen.). 2.45, 6.15.

9.80. Late show Fri. 4. Set. 11.45. Seats

bible. Lic'd. Bar.



down (7)

the following times:

WALES-5.556.20 per Wales Today. 6.45-7.10 Heddiw. 12.00 News

Coupler
9.36 Great I
10.00 News. the following times:

Or WALES 5.55.20 pm Wales Today, 6.45.7.10 Heddiw, 12.00 News

European Athletics Championships.

The Hollywood Greats:

Coupland.

9.20 Great Expectations.

10.00 News.

10. 7.10 Top of the rope.

7.40 European Athletics Cham- and Weather for Wales.

Diouships. SCOTLAND 5.83-6.20 pm Re-

10.35 Big John, Little John, 1.20 pm On The Move, 1.30 Mister Men. 1.45 News, 4.18 Regional News for England (except London). 4.20 Play School (As BBC 2 11.00 am). 9.00 News. 9.25 Most Wanted. 11.16 Checkpoint.

F.T. CROSSWORD PUZZLE No. 3,758

5.55 Nationwide. 6.20 European Athletics plonships.6.45 Dr. Who.

4.15 Graham's Gang, 5.10 Boss Cat. 10.18 I, Claudius. 5.35 Captain Pugwash. News (London and South 11.40 European Athletics Cham-East only).

I Rendering for each to endure 5 Bus returning team to settle 6 Boast about doctor in charge instituted by inventor

of 25 (5)
7 Paint may be unsuitable (7)
10 Dread to accept man embracing student in imaginary 14 Have a liking for employment place (9) in ornamentation (9)

II What arresonsible drivers do 16 Plot requiring everybody to

being pompous (9)

Ireland.

ENGLAND—5.55-6.20 pm Look

East (Norwich): Look North
(Leeds, Manchester, Newcastle): 11.05 Space 1999. LES pm Anglu News.
Midlands Today (Birmingham): Lib The Entertainers—Tony Monopoly.
Points West (Bristol): South Today (Southampton): Spotlight
South West (Plymouth).

Except at the following Library

ANGLIA

10.28 pm Little House on the Prairie.
11.05 Space 1999. LES pm Anglu Nonopoly.
220 Women Only. 4.20 Larsie. 4.39

About Anglia. 7.20 Grossroads. 19.30 Air
Peter 73, 11.15 European Athletics
Championships. 21.45 Chopper Squad.
12.40 am The Living Word. BBC 2 6.40 7.55 am Open University.

11.00 Play School. 4.55-5.20 and 5.45-7.00 Open University.
7.00 News on 2 Headlines. 7.05 The British Connection? 7.30 News on 2. 7.40 Gardeners' World.

7.49 Gardeners' World.

8.05 Top Gear. Le Mans sports
Car race.

8.30 BC: The Archaeology of the Bible Lands.

19.00 Films of the 40s: "The Gentle Sex," Starring Joan Greenwood Resembled Surgeon. 12.00 Border News Summars. 8.30 BC: The Archaeology of the Bible Lands.
†9.00 Films of the 40s: "The Gentle Sex," starring Joan Greenwood. Rosamund John and Lilli Palmer.
10.30 Are You Being Properly Served."
11.30 Late News on 2.
11.40.11.50 Closedown, reading

11.40-11.50 Closedown, reading.

LONDON 25 Skiful in Soccer with Jack 9.25 am First Thing. 18.20 Tandarra.
Chariton. 10.20 The Undersea 11.05 William News Charles. 10.25 Rossevelt. 1.20 pm Grampian News G Skippy. 10.50 Some of My Best Headines. 4.25 The Plattones. 4.50 Skippy. 10.50 Some of My Best Headines. 4.25 The Plattones. 4.50 Srippy. 10.50 Some of My Best Headines. 4.26 The Plattones. 4.50 Srippy. 10.50 Some of My Best Headines. 4.26 Carron Time. 7.20 Crossroads. 11.30 toon Time. 12.00 Little Blue. 12.10 The Bob Newhart Show. 12.15 am Refection Time. 12.20 Little Blue. 12.10 The Bob Newhart Show. 12.15 am Refection Time. 12.20 Platform.
News plus FT index. 1.20 Platform.

Have a liking for employment place (2)

11 What irresonsible drivers do 16 plot requiring everybody to in turn had become chaotic (3-3-3)

12 Player is putting airman to the right (6)

13 Demonstration of strength of spirit (6)

14 South African program of extractic (9)

15 April (6)

16 South African program of extractic (9)

17 South African program of extractic (9)

18 Soldier returning in whicle should not south of the extractic (9)

28 Soldier returning in whicle should not south of the extractic (9)

29 Soldier returning in whicle should not south of the extractic (9)

20 South African program of extractic (9)

21 Gland has nothing to change 22 Soldier returning in whicle should not set off (9)

22 Soldier returning in whicle should not strength of grant could blow up (9)

23 Soldier returning in whicle should not strength of grant could blow up (9)

24 Soldier returning in whicle should not strength of grant soldier should not strength of grant could blow up (9)

25 Estimate the worth of price (5)

26 Soldier strength of price (5)

27 Wave right inside chemist's flass yeaself (7)

28 Hardssone woman holding sample and set off (9)

29 Soldier returning in whicle should four and could blow up (9)

26 Estimate the worth of price (5)

27 Wave right inside chemist's flass yeaself (7)

28 Hardssone woman holding sample should be should four and could blow up (9)

28 Hardssone woman holding sample should be should four and could blow up (9)

29 Soldier returning in whicle should four and could blow up (9)

20 Soldier stream for the should four and could blow up (9)

20 Soldier stream for the should four and could blow up (9)

21 Gland has nothing to change (5)

22 Soldier stream for the should four and could blow up (9)

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24 Soldier stream for the should four and could blow up (9)

25 Estimate the worth of price (5)

26 Solding stream for the should four and could blow up (9)

27 Soldier stream for the should four and could blow up (9)

28 Hardssone wa

(هيکزامن المجل

ROYALTY. Credit Cards. 01-405 8004.
Monday-Thursday Evening 8.00. Friday
5.30 and 8.45. Saturday 3.00 and 8.00.
London critics were BILLY DANIELS in
BUBBLING BROWN SUGAR
Best Musical or 1977.
Tel. Bookings accessed, Major Credit
Cards. Restauran Reservations 01-405
2418.

ROYAL COURT. 730 1745. Air Cond From Sept. 6. ets. at 2. NGOI Williamson in John Ostorne's INADMISSIBLE EVIDENCE

STUDIO 4. Oxford Circus. 437 3200.

Jill Clayburth. Alan Batus

AN UNMARRIED WOMAN (X)

Progs. 1,05, 3,30, 6,00, 8,35, Late show

Sat. 10,50.

Actic course dying con



Electric convection curing improves product quality



Low-cost installation with electric vat heaters



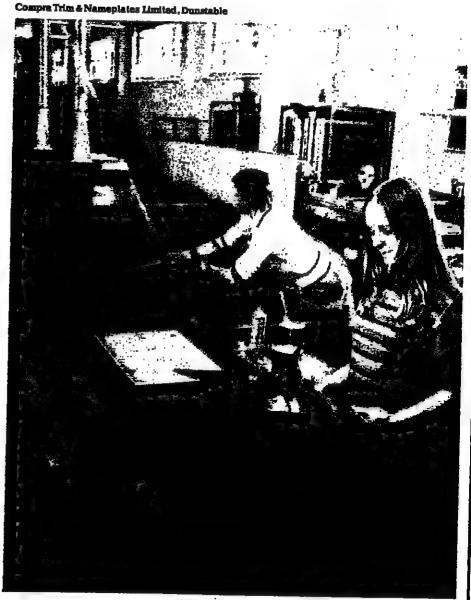
Electric infra-red oven speeds paint drying



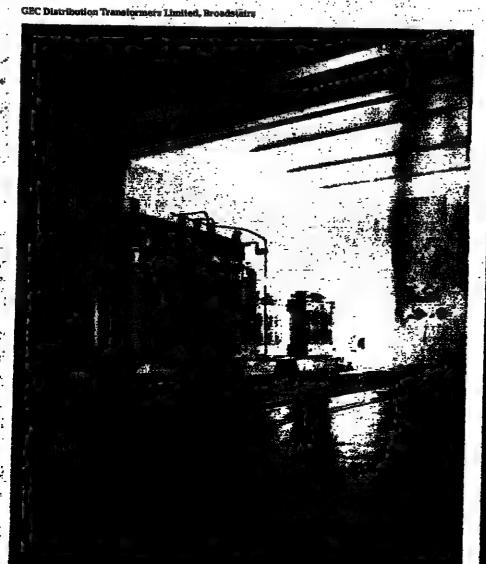
Supplementary electric steam raising at point of use saves money



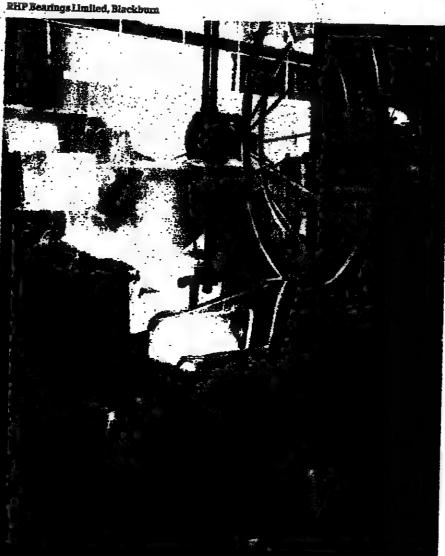
Small foundry makes big cost savings by going electric



Electric infra-red curing increases production



Electric convection oven gives flexible drying control at low capital cost



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FINANCIAL TIMES

BRACKEN HOUSE, CANNON STREET, LUNDON ECAP 4BY Telegrams: Finantimo, London PS4. Telex: 886341/2, 883897-Telephone: 01-248 8000

Thursday August 31 1978

A counter to the boycott

THE ARAB boycott of Israel is boycott conditions in negotiat- three investment projects. and unpredictable, it poses mail. and unpredictable, it poses serious moral and commercial to the Select Committee, however, was that unilateral action the Middle East. Some have felt obliged to withdraw from the Lik would damage onte skilfully for an organisation. felt obliged to withdraw from Israel; others have avoided less important supplier to the Wedwood Benn to coreal State which would normally interest which would normally interest. which would normally interest them. Eusinessmen are heartily that it would be much easier for industry and which has been sick of it and would fully the Arabs to switch from British threatened with the axe-or at sick of it and would fully to alternative suppliers. The least the printing cheare of Sir endorse the comment in the Government supported this posithe House of Lords Select Com-mittee on the proposed Foreign proposed Bill outweighed any Boycotts Bill: "It is objection- possible benefits. The Commitable for those who are not tee rightly pointed out that such party to the Middle East con-legislation passed by only one illet to be drawn into it and European country would not for the exercise of legitimate have the effect of dismantling economic activity to be made the boycott apparatus, indeed subject to extraneous political it would add a fresh layer of

been the U.S., partly because of its powerful pro-Israel lobby, Haif-hearted which has taken the strongest. This does not mean that the stronger than they were just which has taken the strongest action. The Export Administration Amendment Act of 1977 makes it illegal for a U.S. company to refuse to do business with Israel because an Arab country demands it. In addition. U.S. companies are prohibited from furnishing certain kinds of information about their dealings with blacklisted firms or with

efficiency

itt ontput per hord.

earnings in the past year.

The deterioration

rent British planning experi- underlying rate of productivity ments of the past generation, growth has fallen back by more

Department of Employment There is no clear-cut explana-Gizetic indicate, the UK's pro-

ductivity performance has officer than im OECD has noted in relation to

2 per cent to the increase in dundancy measures, leaving aside the direct and indirect

Yet, as figures in the latest than the average.

designed to ben trade between ing new contracts. Hence sup-Arab countries and foreign porters of similar legislation in the Israeli economy or to have enforce the boycott against a fierce armiment with the strengthened her war effort. British companies if the British Although the application of the Government showed a firm boycott has been inconsistent determination to resist black-

long-standing commitments to British exports, Most business tion that was launched three report published yesterday by tion and the Select Committee tives win the next General statutory rules to be complied The question is—what can be with and make trade with the done about it? So far it has Middle East more difficult.

fears among businessmen that firming that the goods in cuesNovember). Industry and the nificant for the fact that it took earlier failures in jumbo conit would lead to reprisals in tion were not made in Israel
Arab countries and severely and do not contain Israeli-made

Arab countries and severely and do not contain Israeli-made

Arab countries and severely and do not contain Israeli-made

The exports field also saw two tast truveances ust.

Apact from special arrange experience of NEB staff to comtion — the way it has steered
innered interventions in jumbo conments for small firms, the plan plement the more general clear of Chrysler both three damage U.S. exports to the components. The Government Middle East. It is too early to should seek a consensus among average the effects, but first indications are encouraging; some of dealing with the boycott, but farst countries have amended their members rarely, and countries have amended their members to example should encourage a minute to components. The Governments on ways and a did emerge. The CBI people for a Venezucian railway and a dimitted their members rarely. Middle East power station. Now the NEB is generally keeping the NEB is generally taking an one of east and in the NEB did not win orders for a Venezucian railway and a did emerge. The CBI people for a Venezucian railway and a dimitted their members rarely. Middle East power station. Now the NEB is generally taking an of the NEB declarate they shown one way of mixing the fellow Conservative politicinus of the neartime the American NEB. Like leaders of other NEB is generally keeping to find the NEB did not win orders for a Venezucian railway and a did emerge. The CBI people for a Venezucian railway and a dimitted their members rarely. Middle East power station. Now the NEB is generally taking an of the NEB declarate they also design the cation of such one-off export in the neartime the American of such one-off export in the neartime the scenario of such one-off export in the neartime the scenario of such one-off export in the neartime the scenario of such one-off export in the neartime the neartime the scenario of such one-off export in the neartime and activity in developing the countries that in the NEB did not win orders for a Venezucian railway and a did emerge. The CBI people for a Venezucian railway and a dimitted their members rarely. Middle East power station. Now the NEB is generally taking an order of such one-off export in the neartime the neartime than £100.000 with bank managers.

Even Sir Keith Joseph and their members rarely. Middle East power station. Now the NEB is generally exported in the neartime for nor order of such one-off damage U.S. exports to the components. The Government tion Barriers to

criticiams.

THE NEED to improve the rate however, appears to of productivity growth has been been more efficient than front adopted to sensitive indus- problem, and the best that Sir have little in common apart its acquisitions (as happens, (backed up by regional hoards) meantime. the one constant in the recur- most in this respect since its

THE NATIONAL ENTERPRISE BOARD

The State's new businessmen

been attacked for being reckless tion strategy.

Commons Public Accounts Committee which is trying so far without success, to make the NEB reveal details of its com-Adontial husiness transactions.
What all this means is that

vears are hy Mr. Anthony Knith Joseph is the Concerta-

Good chance of survival

chances of the NEB surviving as an example of state ownership with an entrepreneurial face under a future Conservative administration are now

entortained and talked to by Sir people all have their own ideas and propaganda shout their

weeks the National Enter- Prime Minister, Mr. Callaghan, been able to do so far is to set caught the eye and imagination more recently, with Monotype). The BTB (Engineering), project

business is still in trouble and available.

SIR KEITH

lowering of the axe

with which he has

threatened the NEB

JOSEPH:

prise Board has received who intends to make the NEB and give it a fresh start. Among a considerable amount of publicity, some of it favourable and it after the other "lane ducks," the other "lane d

with public money in investing. He showed how he rates it Rolls-Royce has several lean. The NEB however sees its viability of companies and the also a local NER initiative. It up to £50m in its new INMOS when he threw an unusual years ahead.

Work as falling into clearly capabilities of businessmen, as establishes a link between the micro-chip company based on Downing Street dimer party for There have also been some defined areas: helping its lame well as to find new top execu- NEB and individual Midland the skills of three electronics about 45 people early last month failures with the NEB's early ducks; boosting exports by tive, was a major attraction to Bank managers and may soon be engineers, and it has won at which he made Sir Lestie the investments and attempts to encouraging overseas marketing financial institutions in recent extended to Merseyside. acceptance from two clearing star turn. The guests included work out industrial strategies, ventures: filling what it sees as deals. These involved Barclays The most significant example banks and the firmly private Tory MPs (Sir Keith pleaded in particular there has been the equity gap for small and Bank joining up to rescue the of the NEB finding entrepreenterprise Industrial and Com- other business), top CBI and controversy over its intervention medium-sized businesses, especi- Monotype printing machinery neurs and top directors to run mercial Finance Corporation in TUC leaders and senior Cabinet in the tanning industry, while ally in areas of high unemploy- company, the Industrial and its businesses is the INMOS While it has won this respect-well as representatives of the industries such as electronics industrial strategy role by thon jointly investing in BTB one UK and two American

URING the past few trial and other issues by the Leslie and his colleagues have from the fact that they have for example, with Faircy and, had made only a limited impact. The NEB's ability to assess the East small firms scheme, was

ability and acceptance as a NEB's parallel agencies in Scot. and power engineering have not rationalising industries and (Engineering) of Blackburn, micro-electronics experts, Sir companies which are deemed to the UK have argued that Arab commercial organisation. its land Wales and Northern succeeded.

encouraging new technology, and the Midland Bank forming Leslie believes it is essential to have promoted the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status has led to promote the growth of countries would be reluctant to public sector status and the first promote the growth of countries would be reluctant to public sector status and the first promote the growth of countries would be reluctant to public sector status and the first promote the growth of countries would be reluctant to public se as a result, the three founders of INMOS and other key emb ployees will have the opportunity to purchase up to 27.5 per cent of the company's voting shares. This is not the first time that the NEB has used State funds to boost the businesses - and potential personal profits - of entrepreneurs. It has done the same thing with Sinclair Radionics and INSAC Data Systems, And, in a somewhat different situation, it has approved the purchase by Mr. Derek Alun-Jones, who it appointed managing director of Ferranti, of a sizeable block of shares in his company earlier

> But the INMOS initiative is the biggest example so far and is thus the best demonstration of the new sort of mixed economy business that Sir Leslie and his colleagues are designing in place of the more traditional nationalisations of the past. The same formula could not of course be applied to the NEB's loss-makers, although the proposed BL incentive scheme for manual workers could be extended upwards to management.

this year.

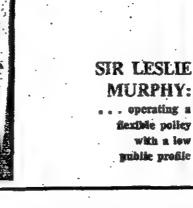
Nevertheless, the NEB has in the past year developed a signicant type of state intervention. In so doing, it has not with blacklisted firms or with blacklisted followed the early Wedgwood Benn hopes that it would ruth-lessly with a successes of British major successes of British major successes of British work and then launched a 1- umblings over the private Government each November. In the case of Monotype, the work and then launched a 1- umblings over the private Government each November. In the case of Monotype, the findstry; nor has it tried to work and then launched a 1- umblings over the private Government each November. In the case of Monotype, the findstry; nor has it tried to work and then launched a 1- umblings over the private Government each November. In the case of Monotype, the findstry; nor has it tried to work and then launched a 1- umblings over the private Government each November in the findstry; nor has it tried to work and then launched a 1- umblings over th

> joint venture for a large-scale the company and usually also because it may make it private sector of industry builders' merchants business in requires & live-year strategic harder for a future Conserva- would do better left entirely

Perhaps their main success so activities prompts the major certain senior management. Two of the deals are also deciding the outcome of that key approach has fitted in with he finating off some of its shares it is little more than a moticy management is the NEB's major tion of the NEB in the regions, mantle both it and the NEB's the cautious, non-controversial shortly. But BL remains a assortment of businesses that contribution to the running of where up to now its local offices entrepreneurial activities in the



. operating a flexible policy with a low



colleagues have been successful

Lestic (himself a known at his general image-building builders merchants outsites in requires a nive year, strategic nature conservations about their Jeddah selling UK-made build plan up-dated each year. It also tive Government to unscramble alone,

people all have their own ideas of what the NEB ought, or operations, they have yet to operations to the Board vities in line with the preferred turn out to be a major factor, in the case of the deals are of the deals are also therefore.

Such a range of diverse and in some cases, to approve policies of Sir Keith Joseph. The deals are also therefore, in the case of the deals are also therefore. riticisms.

far is the turn-round in the criticism about the NEB that, appointments.

At the same time, the low-fortunes of Ferranti, which will apart from its "lame ducks."

Often the selection of new top-helped to establish the reputa-Government does not try to dis-

AND MATTERS

The Chinese

upstage Canute

deteriorated rather than improved in recent years. The slight rise in employment in production and manufacturing production and manufacturing reflects the effects both of implementation and the improved in the slight rise and the slight rise reflects both of the slight rise research respecting Anything the Soviets can do the industries in June and the various employment-supporting Chinese can do better - or broadly flat trend since last measures and the lags between vice versa. That has long autumn point to only a slow rise changes in output and employscemed the case in the cold war. ment but may in addition reflect between the two so I suppose Over the first-half of this year some switch in demand to the it was inevitable that, once appears to have been less than industries." The UK's power rivers to run southwards instead 1 per cent, higher than a year than average performance can of northwards. Peking would of northwards. Peking would earlier, while rising output in in part he explained by its relarespond. Its answer to the the capital intensive North Sea tively larger job preservation Soviet Siberian schemes is to oil sector has ensured a gain of schemes — currently keeping ground 1) per cent in productaround 200 000 people directly dredge up its own plan. Needtion in estries venerally. This off the unemployment register is hardly much reward for in addition, the efficient use of less to say in this case the river. the Yangtze, is being moved northwards not southwards. the self-financing productivity ishour has not been helped by The problem for the Chinese se somes allowed under the pay the Government's policy which have added about employment protection and reis that the south of their

Hoffmann, tells me that waters These measures could be regarded as an acceptable price from the swollen and wasteful This has occurred at a time which the rest of the community Yangize are to be pumped dynasty's two monarchs. While of buoyant consumer demand in is prepared to pay temporarily 1.000 k-lometres to the thirsty Yang Di was messing about with the UK and at possibly around -through taxes and higher the peak of a cyclical upturn, prices to reduce unemploy-The deterioration is shown even ment and to ease longer-term more clearly by comparison changes in a period of severe with the previous cycle - not recession. The problem is that only was output per head in these employment schemes are presinction industries in the not temporary and are being first half of this year less than extended during the current I per cent higher than the pre- period of recovery even if the vious peak at the end of 1973 number benefiting is no longer

irract of industrial aid.

but it also represented an ita- rising. provement of only 7 per cent Distorting effect

from the 1975 trough. In con- There is a distorting effect trast between early 1971 and on the efficiency of the labour the end of 1973 productivity market as a whole from the of the Yangtze's flow. rose by nearly 12! per cent. apparently permanent policy of The UK has not been alone in employment support. The result experiencing a sharp reduction has been to ossify existing so many larger-than-life Chinese To Chairman Mao, of course, growth since 1973. With the directly, via the influence on before. The new waterway is exception of West Germany the attitudes of managers and to follow the course of the hisexception of West Germany the attitudes of managers and to follow the course of the his Hua this year. there has been a similar trade union leaders throughout toric Grand Canal, dug about the phenomenon of firm or rising industry. The slow growth of AD 600 by the Sni Emperor, employment and slow output productivity in this way exposes. Yang Di. He wanted to be able Cheap at the growth in most other major the inherent contradiction in lo travel comfortably from his industrialised countries. This the Government's industrial capital at Pangehow to Loyang Price has prompted the Organisation policy between its short-term to see the flowers bloom in the for Economic Co-operation and desire to preserve jobs and the spring. He drafted a million It is. American Express an-

Station PROPERT country has ample water but the

"You could be waiting here in the comfort of your very own office - contact our letting agents . . . "

The canal was rebuilt during

environs of Peking. hoats, his Tang enemies were The scheme, China's most using their energies to build ambitious hydro engineering armies. project, foresees taking 30bn cubic metres of water each year the era of Montol supremary from Yangchow, near Nanking, in the 13th century and extenuphill and down, across the ded some 200 miles to Tientsin, high-bedded Yellow River. The the destination of the new prowater is to be raised by 30 ject. This will involve the repumping stations on a 15-stage dredging of the old canal and, scandal in 1974, did look into functions are included," glows "staircase." The volume invol. in certain areas, its re-routing. ved is equivalent to one-half of As a result, 4m hectares of the flow of the Yellow River land will be newly irrigated and

north has too little. But now

our Peking correspondent, John

It is almost a disappointment go for reviving a waterway to find out that the project, like

hotel," for two people at a mere spokesmen

London's most

and dinner but continued to stick by the rules. Ask the seem daunting even when the Inland Revenue." he went on, bolcl told me that it repre adding a trifle ira-cibly: There sented a discount of 35 per cent is no slush fund." had been in Jubilee year.

fewer nights and the hotel wants to encourage its U.S. business clients to bring their wives along for the weekend. And what has been the response to an offer so hard to refuse? "Not at all good."

Claim allowed

My note last week about taxdeductible fines in Canada has prompted a reader to ask Miscalculation whether bribes vital to carrying on business qualify as a legitimate expense for tax purposes The answer, surprisingly, is

The Salmon Commission on Standards of Conduct in Public 12.858WA calculator. Life, set up after the Poulson amazing amount of precise the question of building the the text - at a cost to Toshiba word "honest" into the phrase of just under £4.000-" four but will take only one-thirtieth 18m hertares of swempland curred for business." But noth as well as sign change, constant ing was done, and the Inland power, add-on/discount, memory drained. To whom should credit Revenue tells me that even com- calculations." Whatever the which makes the Panama Canal missions that could be looked at abilities of this cunning device. seem little more than a puddly? askance in another quarter the name that appears on it in would not necessarily be exclu- the photograph is "caluculator" ments were actually made, and duced by a photographer doing the name of the person con- a spot of touching up: "It cerned: "This might be a does not matter," said a spokespractical difficulty," said a mag. "You connot get this

took four days to process my has been some sort of mix-up at for Economic Co-operation and desire to preserve jobs and the spring, the drafted a million in the Development to note that efficit long-term goals of improving peasants to excavate the canal nounces, a "Very Special Offer gratia payments" were entered ency at creating inefficiency as environed in the Such extravagance was soon to Indeed ": no less than three on tax returns. "Any commishas been widespread. Britain, industrial strategy. question of how its famous "ex head office in Tokyo . . .

handle the delicate subject of That price includes breakfast the alleged slush fund:

exclusive ible," said one of the two

on the normal room rate. Why I asked him whether BL prowas such a discount necessary posed taking legal action over in the high autumn season? I a newspaper article a fortnight asked - only to be told that ago which alleged, with the business was not as bright as it names of the Swiss hank ad been in Jubilee year. accounts involved, secret pay.

U.S. businessmen are staying ments of £700,000 and £325,000 to a prominent Saudi and one of his compatriots, and esso one to Shari Alexane of Egyptmoney supposedly received as a consequence of a contract with the Egyptian army.

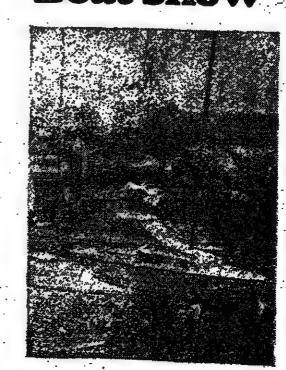
I was told that RL' did not wish to make an announcement about that just now. . And was there any comment on the contents of the article? "No."

The corporate face of Toshiba

(UK) is still a trifle red over a full-page colour supplement advertisement for its micro minlaturised, wholly and exclusively in arithmetic calculations, mixed model in Britain anyway." So BL, formerly British Leyland, why the advertisement? "There

Observer

An 8-page guide to the Southampton Boat Show



With more than 450 exhibitors the Southampton Boat Show on September 18-23 promises to be bigger and better than ever. Along with the 8 page pull-out guide to the show, this month we feature a concise preview of the many new boats and pieces of equipment, Our Cowes Week Report takes a look at the bigger yachts and details of all the racing. There's an article on liferafts—would yours let you down? Plus a report on the Round Britain Race and all our usual and unusual

All in September's

Yachting World

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FINANCIAL TIMES SURV

Thursday August 31 1978

Period of major growth ahead

By Michael Donne Aerospace Correspondent

AMONG THE most significant of the aircraft manufacturing summer include that by Airbus Industrie, the European consortium building the increasingly successful A-300 Airbus. to launch the new A-310, 200launching that programme on to craft would be competitive with world markets and providing two major ventures proposed in One Elevens.

the U.S. has made it clear that which Britain could have a stake big "200-seater markets" of the in the JET programme. future, with the Dash 400 verhas decided not to compete in Rolls-Royce this section of the market, and awaited—the Dash 535 version design, preferring instead to for both the 757 and ATMR concentrate on its plans in other ventures, and the proposed areas, including the continued RB-432 "Spey replacement" and development of its highly the smaller RB-101 engine for successful DC-9 series, further the next generation of business versions of the DC-10, and jets and other light transports. development of the short-to- All of these engines are of vital medium range Advanced Tech- significance for the long-term flurry of activity in the aeronology Medium Range (ATMR) future of Rolls-Royce in

be supplemented soon by Approval further major developments.

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This has been a dramatic summer for the world's aerospace and airline industries, and they go to this year's Farnborough-Air Display conscious that the decisions already taken and those that are likely before the end of the year will reshape the manufacturing and operating sides of world aviation for the rest of the century.

ul competitor.

Boeing 757 and the McDennell
More recently, Lookheed of Douglas ATMR—in sither of

At the same time formal TriStar, but Government approval for the

government level with France or potential developments this the rate of growth of world air to late 1950s. A-310. This also carries with liner," at the same time giving lines' existing fleets unaccept- orders for the rest of this cen- rapid spread of cheap fares has effectively with rapidly chang-

While this latter decision may Outlays have appeared to be a blow to One-Eleven, that afferaft in fact now has a secure future as a has shelved its original DC 3-200 of the RB-211 which is on offer in Romania, while British Aeromost will be built under licence space is also now exploring the prospect of a major One-Eleven deal with Japan, also involving some manufacturing under licence there.

such U.S. airlines as Eastern, series of short-to-medium range replacement of its againg many of the existing short-to-be left at a competitive disswiftly followed by the decision Joint European Transport (JET) One Elevens in its fleet, with anyway, and are becoming in new equipment in 1985-86 when of United Air Lines of the U.S. programme, and whether the the additional requirement that creasingly expensive to run as the new noise regulations engined airliner, effectively also developments. These latter air- British Aerospace for purchase of all these factors is the need

just about to flow through the and into the 1990s, if traffic involve outlays of some £40bn average of 6 to 8 per cent a year. up to the mid-1980s on about But if as a result of traffic 3,000 or more airliners. While growth and new governmental this demand will be spread ecross the entire spectrum of fleet obsolescence, the manufactypes, from the existing Boeing mirers seem headed for a long 747 Jumbo jets down to the period of good business, the air-small feeder-liners of the 146 lines themselves have some conwhich is why there is so much aver-chapper air

resumption of membership of Government has given approval where that have tightened up swift, and that within a little North Atlantic,

This re-equipment tide that is through the rest of the 1980s

likely to occur in the Among these is the mounting 180 sesters. Thus, the manu-such cheap-rate fares as Sir Los Angeles. and West Germany for several summer on the serospace manu-praffic, and new government demonths the terms for a UK facturing scene. In Britain the cisions in the U.S. and else-re-equipment tide is likely to be national routes such as the "Parliament" — the

stantial orders from such air- it the longer-term question of British Airways permission to able at major sirports in the tury will have been placed as improved load factors and con-ing conditions in the market lines as Air France, Lufthansa whether the European con-buy 19 Boeing 737 short-haul mid-1980s. This situation has airlines scramble for places in tributed to profitability this place. and Swissair, with options from sortium will develop a new jet airliners for the immediate coincided with the fact that the delivery queues so as not to past summer, on the inter- Perhaps the most significant

The launch of the 310 was airliners in what is called the Trident Ones and Twos, and medium haul jets are ageing advantage, or without adequate degree of caution prevails and enabling airlines to compete buy the Boeing 767 twin- UK-would also share in such the airline also negotiates with fuel costs rise. The net effect become, effective and render danger in pushing the cheap than has been possible for many Atlantic believe that there is conditions of in-flight service fares revolution too far too fast years. Much of the impetus for-The exception to this is un-

doubtedly the Skytrain, which have shown themselves in terms of full aircraft, longqueues of would-be cheap fare travellers outside Station in London and profits are expected to be finalised this gramme to get under way in Sir Freddie Laker's balance autumn, and to go to governfares as earlier Civil Aviation Authority of many of the world's major known as the WG-34.

the regulariton that the world's if not exceed, the inflow of the lines Stand-by and Budget Plan quieter revolution, but a revolution to stimulate demand for new air- greatest spread of the costs to a period of major re- new generation of jets that re- fares. But while these cheap tion nonetheless, has been in craft equipment in the period burden. placed the piston-engined and rates have been popular with progress within the scheduled immediately ahead.

Beyond the Tornado, work in

Harrier vertical take-off aircraft in the late 1980s, known at pre-These changes are still being scale, Victoria discussed inside IATA, but they international collaborative

sheet. So strongly has the idea ments for approval later this Westland Aircraft of Yeovil, is of the demand siderable problems to overcome. of Skytrain prevailed that the year or early next, with full preparing a new design for the Government felt con-implementation expected next replacement of the big Sea King pressure from the public for sarrier Civil Asiation Anthonies summer. If they fulfil the hopes helicopter for the late 1980s. emphasis on the new generation evidenced by the undoubted decision to award Laker Air- airlines, they should revolu- again, a major programme is enof 200-seaters and smaller 130- popularity this past summer of ways another Skytrain route, to tionise the competitive ability of visaged, with international colspace manufacturing scene is facturers are heading for a Freddie Laker's Skytrain and While this cheap-fare revolu. help give an impetus to traffic the start so as to ensure the the realisation that the world's sales bonanze that could rival, the competitive scheduled air tion has been in progress a growth, which in turn is likely widest possible market and the

turbo-propeller era of the mid the public, there is still some airline industry itself, with a worry behind all this is that siderations, there are some doubt as to their impact on eir- radical revision of the regula- the airlines do not know just other major long-ter The general belief is that this line profits, especially on inter-tions of the world's airline how far this new era of cheap vital significance for the UK Inter fares will go, and national Air Transport Associa- greater competition is likely to Government needed to consider the European Airbus Industrie for British Aerospace to launch noise regulations in such as way more than five years or so, a While inside the U.S. there tion-designed to enable the generate traffic growth, and thus in planning future programmes. consertium, to help develop the the £250m Type 148 "feeder as would make many of the air- substantial proportion of the seems to be little doubt that the scheduled airlines to cope more stimulate profits—for it is only Of especial significance in

means business...worldwide

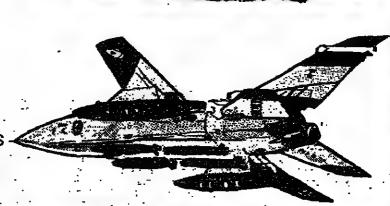
Helicopters Westland Lynx, Sea King, Commande and Gazelle are in full production for NATO countries and the armed forces of the world. Lynx, designed by Westland and built with European collaboration, the world's fastest helicopter with a hingeless rotor system, has been ordered by 12 countries.

New business includes a large new military helicopter and a second generation remotely piloted helicopter.

Hovercraft British Hovercraft Corporation hovercraft have carried over 20 million passengers and completed 300,000 hours of operation in 50 countries. The SUPER 4, now in service, is the largest passenger hovercraft in the world and carries up to 60 cars and 416 passengers across the Channel in half an hour.

Systems Engineering Normalair-Garrett is the European leader in environmental control, hydraulic, pneumatic and life-support systems for aircraft, submarines and fighting vehicles.

Experimental & Electronic Laboratories and F.P.T. Industries Limited are specialists in the design, testing and manufacture of emergency flotation equipment and crash-proof fuel systems for the aerospace industry worldwide.



Westland Aircraft Limited England

New name heads Britain's effort

Corporation, Hawker Siddeley the Oerlikon-Buhrle group. Aviation. Hawker Siddeley Dynamics and Scottish Aviation. These companies have now been Supporting nationalised, and their individual identities merged into. In addition to these direct behind the initial performance gest single entity in UK civil and space equipment, at least and military auftrame, guided another 60,000 workers in the

pendently of British Aerospace, Lucas Aerospace, the Plessey under the separate aegis of the Group and Smiths Industries, National Enterprise Board, is with Ferranti also a major conthe State-owned Rolls-Royce, tributor but which is now a with close on 60,000 workers subsidiary of the National and a turnover of over £700m Enterprise Board.

Selectionics Group and Smiths Industries, on the foundations laid by their predecessor Boards in the original companies.

Much of the first year's activity of the new group has been dominated by reorganisa-

ONE OF the major changes that smaller, independent light ber 31, 1977 (which included will be apparent to all the visi- transport aircraft manufacturer results for individual companies tors at this year's Farnborough is Britten-Norman (Bembridge) in the three months immediately air display will be the emer- of the Isle of Wight, building prior to Vesting Day in April). gence of a new name, British the Islander and Trislander air- total sales of £860m, of which Aerospace, in place of several craft, and which is now being 62 per cent, or £536m were in Aerospace, in place of several craft, and which is now being 62 per cent, or zosom were in famous names that have taken over by Pilatus Flugzeug- exports. The trading profit of dominated the show for many werke of Stans, near Lucerne, the group amounted to £65m, years past—British Aircraft Switzerland, which is part of with a profit after tax of £29m,

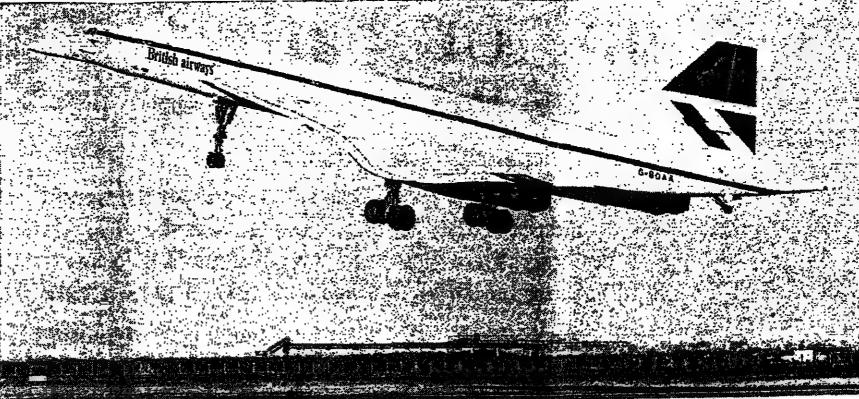
equipments, components, sys-

representing a return of 8 per cent on sales. Orders in hand at the end of the year amounted

that of the new organisation, manufacturers of aircraft, mis- of the nationalised aerospace which now represents the big- siles, hovercraft, helicopters industry. While some of the credit for it can go to the newlyweapons and space research industry are employed in the established Board of British affairs.

equipments, components, sys. It is important, however, to tems and other ancillary fields ship of Lord Beswick, much of It is important, however, to tems and other ancillary fields make that distinction, for directly supporting the airalthough British Aerospace, frame, engine and missile with nearly 69,000 employees, manufacturers, through such is a dominant voice, it does not major private enterprise groups represent the entire UK aero as the Dowty Group, GEC space industry. Operating inde-Marconi Electronics Group, the program of British Aerospace Lycan Aerospace the Places. Beswick and his team to build

Plessey: an important word



with close on 60,000 workers and a turnover of over \$700m last year, of which \$318m were of over \$700m last year, of which \$318m were of over \$700m last year, of which \$318m were of over \$700m last year, of which \$318m were of over \$700m last year, of which \$318m were of over \$100m last year, of which \$318m were of over \$100m last year, of the new group has been dominated by recognization, without interrupting the across of \$20m last year, is the spoul elegated to the spoul of close on 190,000 employees, and a turnover well in spoul recognization of the \$100m last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated to the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the spoul elegated with the spoul last year, is the Hovercraft Corporation as well itself is concerned, the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical conminitary sucreat currently in taken of the group as the basis of geographical currently in taken of the group as the basis of geographical currently in taken of the group as the basis of geographical currently in taken of the group as the provided discovery sucreation of the group as services and marketing, product as a result of contracts awarded and flight-test support, and the in 1974 by the Omani Governwhole venture has been worth ment to BAC for Jaguar strike Versions over £200m. Five British Aero- aircraft, One-Eleven jet trans-

space factories are involved ports and Rapier air-defence space factories are involved ports and mapler arrelevance time owner major very communic (Hatfield, Chester, Brough, Man-missiles, further contracts have with long-term importance for chester and Hamble) and been signed for British Aerospace was the around 2,000 design, administra-space to manage a comprehen-

and the Land and Sea-Dart area about 70

Satellites

Rapier anti-aircraft missile: the group's activities, and especi-Seawolf ship-borne point ally in the question of a share defence guided missile; the Sky. in developing a new short-to-

fic satellite.

A major contribution to the assembly of One-Elevens under group's business is now also licence in Romania in parallel being made by the sale of with production in the Bristol, expertise to foreign countries Weybridge and Hurn factories under what are called "defence of British Aerospace. Over support contracts," whereby £100m of the agreement is also both specialist advice and hard-concerned with the joint manuware is made available in facture of 225 Rolls-Royce Spey "package deals" worth in some engines which power the One-cases several hundreds of mil- Eleven. Eventually, about half lions of pounds. Examples of the Spey parts will be produced lions of pounds. Examples of the Spey parts will be produced year, this include the deals with in Romania. The programme Saudi Arabia, whereby the will begin with three One-

The other major development around 2,000 design, administrative and production personnel sive modern air defence system mer for the full-scale develop- are employed in this increas for Oman.

Ingly successful and profitable. While much interest is programme.

Currently being shown in the programme.

Currently being shown in the shown in the programme.

Currently being shown in the shown in the programme. Among guided missiles in pro-civil airliner manufacturing feeder-liner, now known as the duction or development are the side of the British Aerospace British Aerospace 146. This £250m programme envisages two civil versions of the sircraft Flash air-to-air weapon; the medium range civil aircraft for Swingfire anti-tank missile; the the big markets of the future, Martel air-to-surface tactical it is a fact that the bulk of strike missile; the SRAAM short, the group's activities lie range close-combat air-to-air currently in the military. range close-combat air-to-air currently in the military. Series Two which will be a weapon; the Sea Skua light guided weapons and space there earger, scating 80 to 109 weight anti-ship missile system, fields, accounting for up to passengers. A military version and the trade-in-space shows 50 to 75 t defence system against high and current turnover. On the civil The engines will be provided low flying aircraft. being generated by the run- The aim by British Aerospace down of some major pro- is to fly the prototype in 1980 grammes of the past, such as and to have aircraft available Space activities include a wide now be expected to be taken up group is hopeful that it can range of satellites for both by the 146 feeder-liner proscientific research and commer-gramme, and the continuation ciai applications, including the of the One-Eleven production estimated total market of about Marots martime communications through the recently-signed 1,200 mircraft in the broad satellite for the European Space Romanian agreement. "feeder-liner" category. It is Agency (as part of the Euro- The latter provides for the likely to be an arena of fierce

Agency (as part of the European MESH consortium); the licensed production of 80-plus
Intelsat IVA series of satellites One-Eleven twin-engined airsecond-hand existing twin-jet
contract to Hughes Airliners over the next 15 years,
addingers of the One-Eleven,
contractor) the recent European millions of pounds in exports
CEROS Selention of Reitsin will move in phases
chain on the many
contractor) the recent European millions of pounds in exports
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contractor of the CEROS Selention of Reitsin will move in phases
chain of the CEROS Selention of the CEROS Selection of th Space Agency's GEOS-2 scienti- to Britain, will move in phases their way into this market as fic satellite.

Con Flavore under

Michael Donne

CONTINUED FROM PREVIOUS PAGE

Growth

another £200m for a share of future policy. any smaller short-to-medium range aircraft in the JET/
ATMR/757 category, while the
Rolls-Royce RB-211-535 engine

have been strong indications views, together with those of years past.

calculating the future strategy that the three major elements the Government through the Defor British Aerospace and Rolls in UK aviation—British Aeropartments of Industry, Trade, Royce is the volume of invest-space, Rolls-Royce and British Treasury and Foreign Office,

for the RB-432 "Spey Replace—could try to harmonise these ment" for One-Eleven developments and the RB-401 engine for smaller aircraft. Much of this investment will be generated internally by the industry itself, but nonetheless the Government programme can be ated internally by the industry ordinating Committee, for space spending programme.

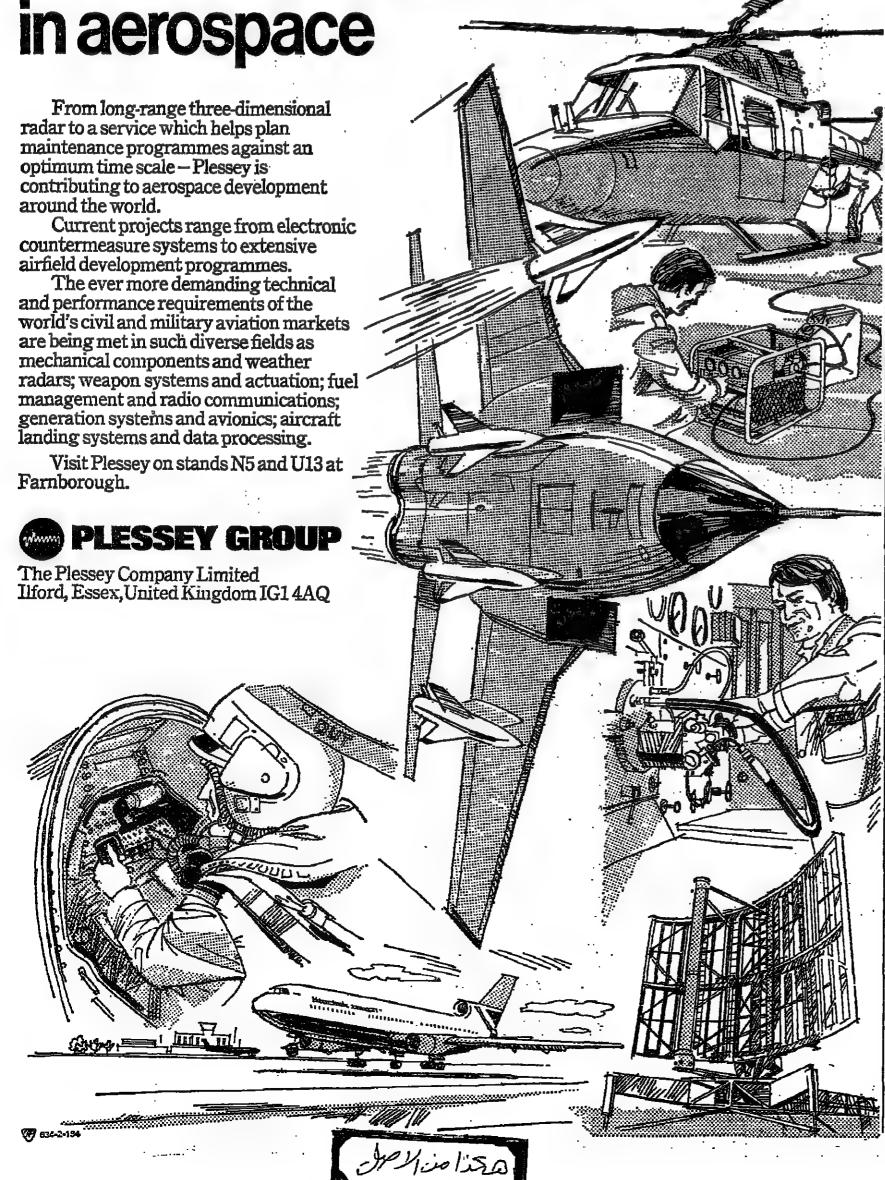
With investment of this inherational negotiations on policy, so that developed without delay. A developed without delay. A developed without delay. A developed without delay are airports policy in this country, and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation, small and there is every reason why a similar organisation or solve problems in aerospace as they arise, obviating much of the industry.

Rolls-Royce, British Aerospace of view that have characterised the UK aerospace scene not only this summer but also for

Royce is the volume of invest-space, Rolls-Royce and British Treasury and Foreign Office, ment required.

Airways—have been speaking and those of other elements in The programmes currently with disparate voices, with UK aviation, including the Civil envisaged collectively are likely British Aerospace anxious to Aviation Authority and even the to account for investment of link with Europe, and Rolls—Central Policy Review Staff (the more than £15n—the 146 alone Royce and British Airways "think tank") itself. In this will account for £250m, any share in the Airbus A-310 for the 757 venture. This has unobjectives could be formulated, more than £200m, with over doubtedly delayed decisions on often well in advance of emerganother £200m for a share of future policy. ing market trends, and an overall UK aerospace policy laid down - much in the same way that the former Transport Air-Rolls-Royce RB-211-530 engine will cost over £250m, and with What is clear is that there is of the late 1940s and 1950s at least a further £200m needed a need for some machinery that help to lay the groundwork for the RB-432 "Spey Replace could try to harmonise these the Viscount, Comet, and other

recent months, however, there But it could harmonise their only this summer but also for



Engine makers gear up for battle

airframes being proposed on Auother factor in the current is undertaking the bulk of the both sides of the Atlantic are engine scene is that because of work on this new family of being offered with a choice of the high cost of developing engines. This is deliberate entirely new jet engines, the programme to develop an engine starting at about 5,100 but it is an international collabote.

But apart from concentrating not only for business jets but rative venture with Motorers. engines. This is deliberate policy on the part of the air frame manufacturers, as a means of widening their eventual sales. It represents a significant change from the days when an airframe maker chose one aero-eugine partner, and stayed with him throughout the life of his aircraft programme. Today, however, the airframe maker starts by studying the available and downwards towards the engine market, and builds his as possible a variety of power-possible a variety of power-possible as possible as possible as variety of power-possibl

Brands

all three of the "big thrust" it," is in the proposed Joint engines, the Rolls-Royce RB-311, European Transport (JET) proand the Pratt and Whitney for engine contracts. The Rolls-Royce RB-211, for example, although the original "launch engine" for the Lockheed TriStar, had to fight hard to win wide availability of choice i the contract this summer from that the sirines which already Pan American for the engines have a specific manufacturers' in that airline's new fleet of 12 engines in their existing fleets long-range Dash 500 TriStars, of first-generation wide-bodied for Pan Am closely studied all jets, will also be able to specify three possible engine-airlrame derivatives of those same powercombinations before deciding plants for any of the newthat the RB-211's performance generation airframes justified it in departing from coming forward. This applies to its long-standing commitment to the 200-seat A-310 on offer from

the financing terms offered by twin-jet airliner, now formally Rolls-Royce played a significant launched with the big order for part in winning the contract 30 aircraft from United Air for the RB-211, and it is becom- Lines; to the Boeing 777 tri-jet; ing a new fact of life in the and to most of the other designs commercial aircraft and acro- on offer in the smaller 130-180 engine market worldwide that seater category, such as the where competing projects are proposed Boeing 757 twin-jet balanced on a knife-edge so far and the McDonnell Douglas as performance is concerned, Advanced Technology Medium the order may well be won by Range (ATMR) programme. the project whose maker can offer the best long-term financial Fierce arrangements. The UK and European manufacturers have This comp quickly latched on to this situa- three major aero-engine manution, and it is likely that finance facturers is likely to become will continue to play as much a very fierce indeed, and some part as performance in settling very substantial sums have been, some of the big contests that and still are being spent by

There has been some critic their entries for the battles now cism in U.S. political circles shaping up in world markets. recently of the way in which In the UK. Rolls-Royce is airframe and engine deals won already strongly placed with the by European companies in the RB-211, which in its Dash 22 financial guarantees. The impli- reputation in both the Lockheed cation is that some of these TriStar and, with the Dash 524, deals have been won unfairly also in the Boeing 747. Now, a by the Europeans. This, of new version of the engine, the course, is nonsense. The U.S. Dash 535, is under development. aerospace industry itself has aimed at a thrust level between for long recognised that Euro- 30,000 and 36,000 lbs thrust, pean and UK airframe and en-thereby widening the sales gine products are of first-class opportunities of the RB-211quality, and that where those This version of the RB-211 programmes have been sup- has been designed to meet the ported by Government develop- need for a fuel-efficient, quiet ment money, it is only natural and economic engine for the that Governments should help new generation of medium-sized to underwrite sales. Moreover, sirliners proposed for service in with the U.S. industry itself al- the mid-1980s, and in particular ready possessing more than 80 the proposed Boeing 757 twinper cent of the Western world's engined and 777 three-engined air transport markets, it cannot jets. As a "derivative" engine, complain if some European the Dash 535 retains the prove counter-attack is launched to advantage of the RB-211, but win back some of the ground has lower launch and introduclost over the past 25 years or tory costs than a totally new more. Nevertheless, both the design. It has a low fuel conengine and airframe makers on sumption, and a thrust-to-weight this side of the Atlantic are well ratio up to 16 per cent better aware that the political ground- than for the earlier Dash 23B

sentatives Ways and Means Sub. ment cost of the Dash 535 is ment was concerned over some £250m, but Rolls-Royce argues of the financing arrangements that this investment will be on recent European deals for more than adequately recouped engines and airframes in the from the big market that could U.S., hich he described as emerge worldwide for the 757 having gone beyond an inter- aircraft in the years ahead, with national understanding on ex-sales of the engine perhaps port credit terms for com- reaching as much as fibn.
mercial aircraft." He said that But the competition is unat a meeting this October, an doubtedly formidable, Pratt and export credits panel of the Whitney, for example, is offer-Organisation for Economic Co- ing the JT-10D-in itself a operation and Development "family" of engines, spanning (DECD) will provide a forum to a take-off thrust range of be-

WITH THE long-awaited re- begin negotiations to tween 25,000 and 35,000 lbs— of short-to-medium range jets— least a part of this gap, it has equipment tide now on the verge "strengthen" the international which means that they will be All of these UK and U.S. been working for some time on

For the new generation of short-to-medium range jets now on offer or proposed, the choice This is already resulting in of engine is being left absolutely some major types flying the to the customer strine. Probworld routes with different ably, the only significant brands of engine—the Boeing exception to this broad rule of 747 Jumbo jet, for example, uses all three of the "big thrust" it, "is in the proposed Joint the General Electric CF6 Series gramme, where the various versions of the twin-jet airliner JT-9D. It is also resulting in planned in this series are being some bitterly contested battles specified at least initially with for engine contracts. The Rolls, the new generation Franci-U.S. (Snecma-General Electric) CFM-56 engine.

One immediate result of this engines from Pratt and Whitney. Airbus Industrie as well as the bigger B-2 and B-4 versions of In that particular competition, the Airbus: to the Bosing 767

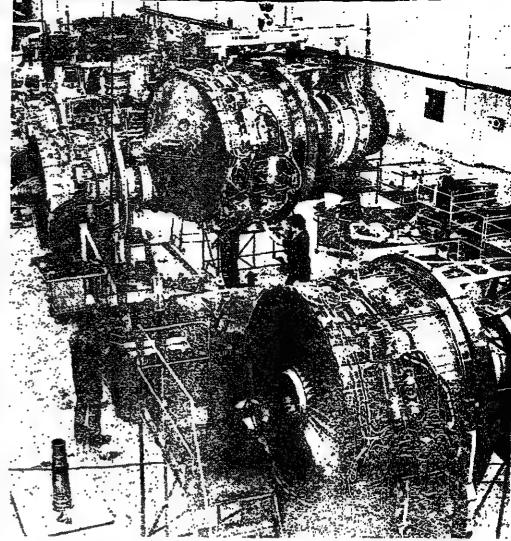
This competition between the the engine builders to perfect

U.S. market have been sup and Dash 524 versions has ported by government or other already won a considerable

aware that the political grounds than for the earlier Dash 23B swell caused by the European visitories in the U.S. market (the Airous sale to Lines, for example, and the Lines, for example, and the Molls-powered Tristars for Pan factory and Rolls-Royce's Derby factory and Rolls-Royce is working closely with Boeing of the U.S. to offer the engine as a prospective "launch engine" in the 757 twin-engined aircraft which Boeing is planning as example, a U.S. Treasury official policies, told a Rouse of Representatives Ways and Means Subment cost of the Dash 535 is Committee that the U.S. Govern-espected to be in the region of

equipment tide now on the verge "strengthen" the international which means that they will be of flowing through the world's export credit understandings, incapable of competing with the power-plants are designed to be cluding those dealing with air-franco-U.S. CFM-56 at the lower ultra-quiet, so as to meet the increasingly stringent noise turers are gearing up for what Europe to the U.S. He suggested RB-211-535 and General Electric requirements that will become many become the biggest commercial struggle they have seen for many years, to win the power-plant contracts for the forced to retallate. This implied 32,000 lbs take-off thrust, designed for insproved fuel threat of retallation, however, is nated JT-10D-132, with certifications and engine manufacturers for with only very few exceptions. All the new-generation of piets now agree on manufacturers for the forced to retallate and engine manufacturers 1981. This engine is specifically programmes will become major acrossed on any open and the airframe being proposed on any programme will become major acrossed on any programme to develop an airframe being proposed on the international which means that they will be power-plants are designed to be two engines, the RB-431 and two engines, the RB-432. The RB-432 is a new international which means that they will be come the lower plants are designed to be two engines, the RB-432. The RB-432 is a new designed for increasingly stringent noise engine in the 16,000 lbs thrust class, that also designed for improved fuel effectively be a Spey replacement engine for the future, suitable for a new twin-engined aircraft of the 100-120 passenger size, as well as for recall and political issues in this class.

For with only very few exceptions, all the new-generation of the scale, and both the increasingly stringent noise and suitable for some time of two engines, the RB-432. The RB-432 is nearly engine



Production at Rolls-Royce Derby of the 48,000-lb thrust RB-211-524 engines selected by Pan American World Airways to power the Lockheed TriStar airliners

We're world leaders in gas turbine technology

Somewhere around the world, during the next two minutes, a Rolls-Royce powered aircraft will be taking off.

A Concorde. Or a TriStar. Or a Boeing 747. Or any one of the 10,000 civil and military aircraft with which we're currently in service.

A remarkable statistic. But what's even more remarkable is the outstanding record of sheer reliability and performance currently being achieved by Rolls-Royce aero-engines.

It's a reliability and performance that's backed by an international product support reputation.

That's why today, we're seeing derivatives of those same Rolls-Royce turbines being chosen more and more for demanding industrial and marine applications worldwide.

Already, Rolls-Royce provide pumping and pipeline power for the oil and gas industries of 14 nations.

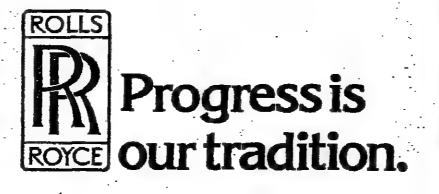
Marine propulsion power for 60 per cent of all gas turbine warships, in 24 of the world's navies.

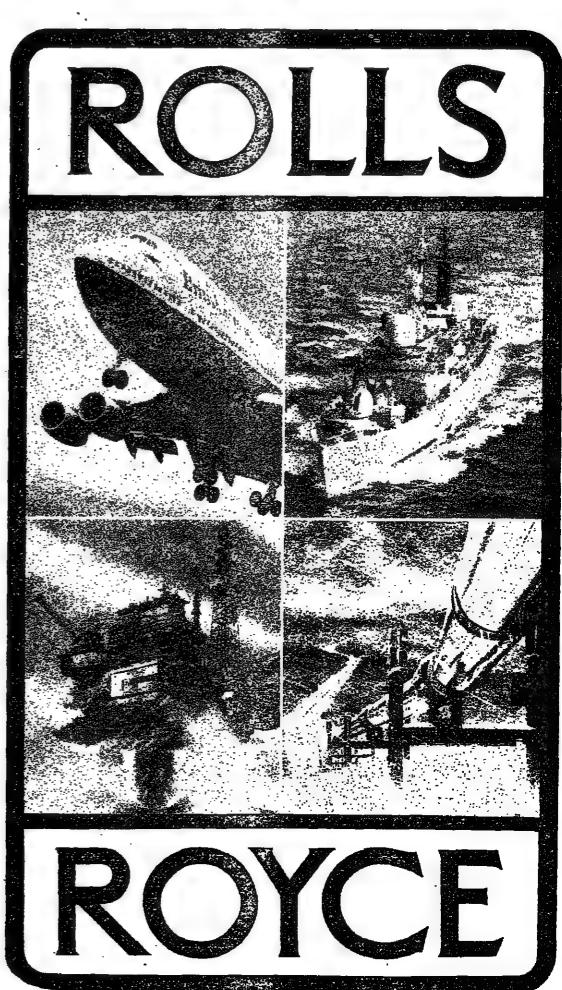
5,000 megawatts of instant electrical power, supplying anything from the small industrial installation to entire cities.

Unrivalled experience in gas turbine design and development has made Rolls-Royce one of the principal suppliers of power in today's world.

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Military aircraft sales

U.S. military aircraft produc-

tion alone in the current Arab
financial year is expected to
amount to close on 1,000 aircraft, although this includes plans to develop a military airhelicopters such as the new

in the central region of Europe alone the Warsaw Pact's fixed-

conventional tactical combat airto continue to do so for some Italian Panavia Ternado multi- tives will incorporate only

THE MARKET for military Indeed, some of the countries aircraft throughout the world of the Middle East have been continues to be strong, with especially vigorous in developevery sign that demand may ing not only their air forces but increase rather than slacken in also their own indigenous aerothe immediate future. Esti- space industries in recent years. mates of likely sales are difficult Israel, for example, now has one to obtain, but with growing of the world's most active aeroemphasis on conventional space manufacturing groups, weapons most reliable forecasts Israel Aircraft Industries, which indicate that between now and although perhaps small by the 1990, several thousand new standards of the UK and U.S. military aircraft of all types are aerospace industries is nonethe-likely to be added to the NATO less formidable in its technical inventories alone, including, for achievements, having already example, more than 800 Panavia built the Kfir supersonic com-Tornado multi-role combat air- bat fighter in substantial num-

such widely diverse types as the craft production capability con-McDonnell Douglas F-15 Eagle tinue through the Arab Organiand General Dynamics F-16 air-superiority fighters, the (AOI), and in recent months Fairchild Republic A-10 close some substantial contracts have air support aircraft, the Boeing been signed with Western Euro-E-3A Airborne Warning and pean countries to help develop Control Systems and various aircraft manufacture in Egypt on behalf of a consortium of Utility Tactical Transport Arab nations including Saudi UH-60A (of which over 1,000 Arabia. Qatar and the United are eventually expected to be Arab Emirates. Companies in built). One of the main aims in from this include Westland Heli-NATO in maintaining such a copters, which is selling its high production flow of military Lynx multi-purpose helicopter

role combat aircraft, the new minor changes or improve-



The U.S. General Dynamics F-16 air superiority combat aircraft is now in quantity production on both sides of the Atlantic for the U.S. Air Force, and for the air forces of Belgium, Denmark, Holland and Norway, under a joint international manufacturing programme.

of the most lucrative contracts the West is concerned, the tion of entirely new military for Western aerospace manufactory major aircraft already in aircraft, most of the new turers in recent years have come development or production developments for the 1980s and turers in recent years have come development or production developments for the 1980s and from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future beyond—at least so far as air from the Middle East, where today for the immediate future to the tion of entirely new military evolutionary rather than revolutionary rather than revolutionar

Cautiously

One contributory factor to this a major research programme emphasis on derivatives stems to determine the possible performance capabilities of miliamine, capable of undertaking a wide variety of roles, includemphasis on derivatives stems to determine the possible personance capabilities of milimanue, capable of undertaking from the belief, expressed by formance capabilities of milimanue, capable of undertaking several senior all for the a wide variety of roles, includmations such as Saudi Arabia, armouries through the 1980s ing or proposed new types from the belief, expressed by formance capabilities of miliseveral senior Air Force tary combat aircraft for the a wide variety of roles, includmanue, capable of undertaking several senior Air Force tary combat aircraft for the a wide variety of roles, includmanue, capable of undertaking several analysts on both sides of the 1990s and beyond. Called ing both air-to-air combat and allert air recent years, that HiMAT, for Highly Manoeuvrthe restriction of the possible permanue, capable of undertaking several analysts on both sides of the 1990s and beyond. Called ing both air-to-air combat and arrorate power, and are likely types as the UK-West Germanthe restriction of the possible permanue, capable of undertaking several arrorate analysts on both sides of the 1990s and beyond. Called ing both air-to-air combat and arrorate power, and are likely types as the UK-West Germanthe restriction of the possible permanue, capable of undertaking and aircraft for the awdid variety of roles, includanalysts on both sides of the 1990s and beyond. Called ing both air-to-air combat and aircraft power, and are likely types as the UK-West Germanthe restriction of the possible permanue, capable of undertaking on the belief, expressed by formance capabilities of milimanue, capable of undertaking on the belief, expressed by formance capabilities of milimanue, capable of undertaking on the belief, expressed by formance capabilities of milimanue, capable of undertaking on the belief, expressed by formance capabilities of milimanue, capable of undertaking on the belief, expressed by formance capabilities of milimanue, capable of undertaking on the belief, e combat aircraft performance able Aircraft Technology, this surveillance role. Thirdly, it may now be on the verge of a programme is being run by the will need to be capable not only "plateau," where refinements of National Aeronautics and Space of using hard runways but also existing capabilities, in terms of Administration in conjunction rough airstrips in the forward more devastating weapons with with the U.S. Air Force, HiMAT battle zone, rather like the improved delivery sections. improved delivery systems, are has two objectives—to Harrier today. This implies likely to be of considerably more accelerate aeronautical design either vertical take-off and landimportance than improvements advances from the research ing capability, or at least very-in absolute speed. The aim from laboratories into flight testing, short take-off and isnding. now on seems more likely to be and to expand design tech- Finally, although it must be try to find the most cost-piques that will permit able to carry effective balance between what quantum jumps in performance armament, it must be simple is undoubtedly aerodynamically from one generation to the next, and rugged, for it will have to achievable in terms of faster Rockwell International of the operate in a very tinsophistispeeds and greater combat alti- U.S. has designed and built a cated environment.

> Factors which have to be a modern combat aircraft, that the RAF, for it will be crucial borne in mind in calculating will be flight-tested later this to that service's overall this extremely complex equation (California, being launched in effect, supplement the build-up of Soviet and Warsaw From a B-52 bomber at 45,000 ft. Tornado, and the two together build-up of Soviet and Warsaw From a B-52 someer at 25,000 IL Tornauo, and the two together Pact conventional forces, with a heavy emphasis on battlefield support and an increasing support and an increasing emperiority in terms of numbers and an increasing support and suppo superiority in terms of numbers it will exploit the properties of the specification right, and an superiority in terms of numbers of tactical combat aircraft, together with what new types they advanced composite materials. Original batch of more than a
> are likely to develop in the research programme, and that
> years ahead. There have been the U.S. is not about to embark
> There have been the U.S. is not about to embark
> are design embodying should be a
> progressively whittled down to various reports emanating from upon fighter design embodying about three. the Soviet Union, mostly unsubstantiated, of radical new ideas that HiMAT itself will test It stantiated, or radical new ideas that HiMAT itself will test. It for combat aircraft, but so far the "Mig-25" Forbat replacement has not emerged—
> although an advanced version although an advanced version that HiMAT will test, and it is solutions is now being increasing the forbat E is known to likely to be at least a decade ingly discussed with the air called Foxbat E is known to likely to be at least a decade ingly discussed with the air exist, and advanced swinging before they begin to take shape forces and acrospace industries wings strike aircraft like the in combat aircraft on the draw of the NATO countries, to dissupersonic Sukhoi Su-19 Fencer ing boards and in the project cover if there is any comparable are increasingly seen as the offices. HiMAT, however, does requirement emerging with main air threat in the NATO represent an attempt by the them, and if so whether Gentral Region.
>
> U.S. to look well ahead of an international collaborative existing concepts, and seek to effort on the AST-403 can be

must also take account of stood. standardisation, both as a means

much of the rest of this century. In any event, only in the late 1980s or early 1990s, in the light of the military, technological and economic circumstances prevailing at the time, will any radically new designs begin to emerge for service in the next technological.

Thus, for the imme. emerge for service in the next equipment aboard it.

century. Thus, for the immediate future, most of the basic a competition to find a new demand for improvements in cheap trainer aircraft, of which combat aircraft technology will it will need 1,000 or so in the last in the avionics (airhorne years ahead. electronics) and weapons fields. In the UK work is being tary aircraft replacement needs, rather than in the airframe field, pressed ahead on the long- and pressures on budgets in although it does seem likely that discussed combined replacement other directions, it is possible the engine manufacturers will for the British Harrier vertical find themselves under increasing take-off aircraft and the Anglo- oration in the U.S.

tudes, with what is actually remotely-piloted research Considerable emphasis is desirable in military terms. vehicle about half the size of being placed on this venture in

today's more stringent economic for service in the late 1980s and aircraft. climate it must take forward beyond, to meet specific require- International jumps cautiously — that the ments which can already be seen on such a venture, however, jumps cautiously—that the ments which can already be seen on such a venture, however, well - tried techniques may to be emerging. In the U.S., both seems inevitable. In view of still be capable of adaptation the Defence Department and inflation between now the late for new tasks, although in the Air Force are studying de- 1980s, when AST-403 is likely accepting this philosophy this is signs for a new, low-cost, simple to arrive, the overall design, not to suggest that the radically ground-support fighter for the development and production new is not likely to be accept, late 1980s called "Bush- cost of the programme is likely able or even essential to meet whacker" or "Bushfighter," to be several billions of pounds the emergence of new or swiftly that could be used as a tank—probably matching or even buster in the Central European exceeding the cost of the changing requirements.

Thus, it seems likely that studies have been conducted by craft programme itself. It is many of the types listed above General Dynamics, Grumman, likely that the UK will require are likely to be seen in service, Northrop, Vought and Rockwell, upwards of 400 aircraft alone in one form or another, for and the aim is to produce an to meet its Harrier and Jaguar rockers of this cupture.

pressure to improve things like French Jaguar jet strike-trainer,

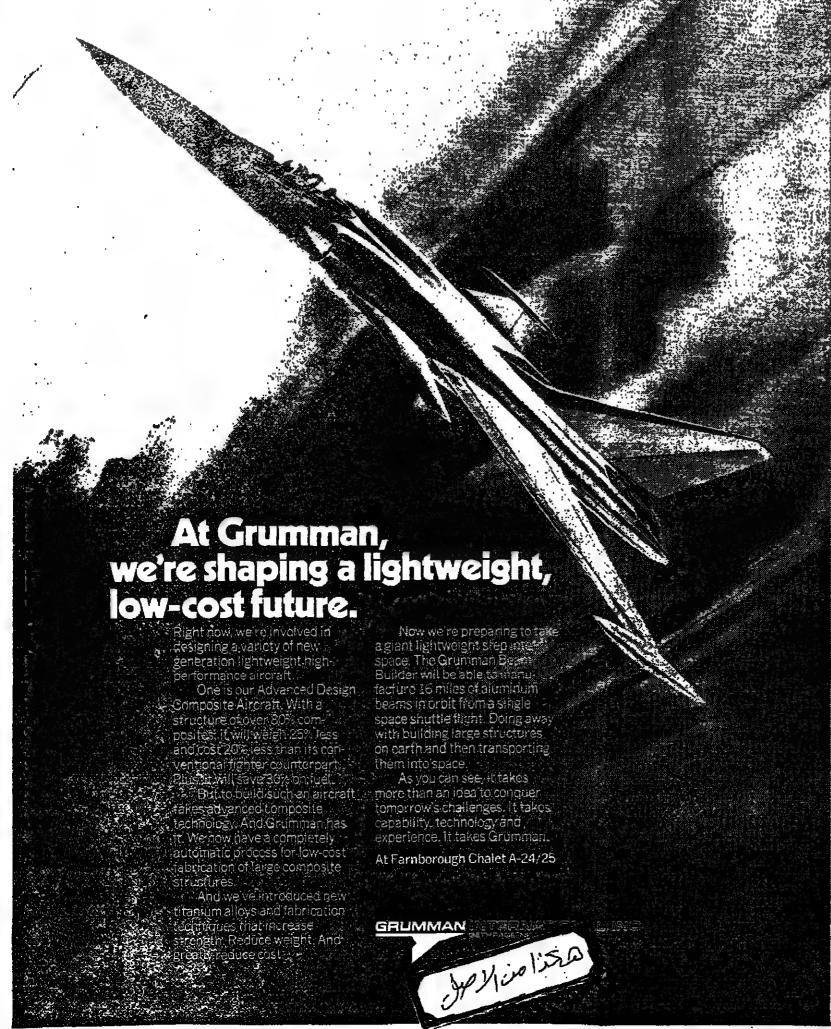
aircraft for the immediate initially to Egypt with the French Dassault Mirage 2000 ments. Many so-called derive- fuel efficiency. But the heaviest which is likely to be the last future is to try to redress the imbalance that has emerged eventual aim of the aircraft which is now flying and the tives in the past have been demand is likely to be for such major UK military aircraft eventual aim of the aircraft which is now flying and the tives in the past have been demand is likely to be for such major UK military aircraft eventual aim of the aircraft which is now flying and the tives in the past have been demand is likely to be for such major UK military aircraft vis-a-vis the Warsaw Pact. for factured there, along with the type of which is due to fly this ing substantial improvements in navigation performance, im-rently, the UK has done most of in the central region of Europe RelissRoyce Gem engine which is due to fly this ing substantial improvements in navigation performance, im-rently, the UK has done most of indus-Rolls-Royce Gem engine which autumn): the Grumman F-14 performance over their pre-mensely improved target acquithe work, in the form of induspowers that helicopter. French Tomcat: the McDonnell Douglas decessors. But where an efficient sition, identification and track-trial responses to what is called powers that helicopter. French Tomcat: the McDonnell Douglas decessors. But where an efficient and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, for improved Air Staff Target 403, embodying and proven combat capability ing procedures, in its already been established guidance systems for weapons, many comercial proven combat capability ing procedures, is it is in the tendency in the tendency is likely to be to day-and-night oper because of the increasingly high craft development, the tendency

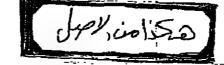
For the long-term future, is expected to be able to deploy conventional tactical combat aircraft taking high priority. Some

It seems likely that, so far as cost of development and producthere appears to be also for this for the long-term future, is expected to be able to deploy
craft taking high priority. Some

It seems likely that, so far as cost of development and producthere appears to be also for this however, in view of the time it over the battlefield in the late

find solutions to problems which evolved. The Defence Ministers are only now beginning to sur- of the UK. France and West face in high-speed combat air- Germany have aiready broadly So far as NATO is concerned, craft technology and which are agreed that such studies should future aircraft developments themselves imperfectly under continue, but there is so far little indication of major West of saving costs and of improving overall military efficiency. The get greater value for money the venture, and it seems so far RAF itself makes no secret of can be seen in the few new that the UK has the most pressthe fact that it believes that in types that are being prepared ing requirement for such an





The next generation of airliners

ALL THE signs now are that lack of adequate cash reserves the 200-seafer category, and in seating 136 passengers and what to do about the smaller the long-expected re-equipment among many carriers.

effect a direct competitor for JET-2 seating 163. Other confamily of aircraft will still have tide has begun to flow through

A more significant factor has the 310. The Boeing 767, cost-tenders in this field include the to be settled—but in a less the world's airlines, and over also been that many of the ing \$25m per aircraft, won an proposed U.S. McDonnell urgent fashion. The main the next few months there is existing types of airliner, such order for 30 aircraft worth over Douglas advanced Technology emphasis at present in world likely to be a steady inflow of as the Boeing 737, and \$1.2bn from United Air Lines Medium Range (ATMR) jet markets appears to be on the new orders, some of them sub- McDonnell Douglas DC9 short of the U.S. (the biggest airline transport, and the Boeing 757, bigger 200-seaters, but it seems

(£26bn) is expected to be spent on new aircraft in the short-tothe vast majority of the world's air passengers already travel, and where most of the growth in the flutters of the growth and where most of the growth are the flutters of the growth and where most of the growth are the flutters of the growth and where most of the growth are the flutters of the growth are th in the future is likely to past year or so begun to sell has shelved its plan to compete occur. The rest will be spent extremely well, winning major in this section of the future largely in the long-haul field orders in its B-2 and B-1 aircraft market. (about \$24bn, or over £13bn), versions worldwide. with a much smaller sum of about \$3bn going on cargo jets Launched to meet the growth in this sector of the commercial strline

stantial, as operators move haul jets, and the Boeing 727 in the Western world)—a con- All of these designs will be twin- clear that some decisions on quickly to secure their places in medium-haul airliner, have con- tract for which the Airbus engined, with a variety of power- the smaller jet family will also the delivery queues for a new tinued to meet more than Industrie group had also fought plants.

The JET family, for example, this year. The question is who have to be taken by the question of short-to-medium adequately the needs of most hard with the 310. range civil siriliners.

It has been estimated that best sell so well that Boeing has been tween now and the mid-1980s, obliged in recent months to step sums approaching \$74bn or up the production rate of the \$40bn, will be spent by airlines 737 and 727, while McDonnell making firm offers to airlines specify any one of the three Most observers believe that throughout the world on up Douglas has found it worthwhile of its new version of the Tri-

air passenger traffic (it is now can be expected to continue to Pratt and Whitney JT-9D and the Rolls-Royce RB-211, the other major increasingly unacceptable in the air traffic into the 1990s and 280 passengers over ranges of mid 1980s as fuel costs rise and beyond, to meet the needs of 3,200 to 5,050 nautical miles. Spread increasingly stringent noise regulations are introduced at able to carry larger payloads as 400 would contain "every technology of the world's major attractions are introduced at able to carry larger payloads as 400 would contain "every technology of the world's major attractions."

haut jets has been available, in

But the real battle is expected and the Dash 400. now to come in the smaller,

The other major U.S. manufacturer, McDonnell Douglas,

markets with the Boeing 767

tinued rapid growth of world But while all these aircraft the Rolls-Royce RB-211-22B, the engines—the 535 derived from first is likely to spark off an-

throughout the world on up. Douglas has found it worthwhile of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally wards of 3,000 new airliners of to launch a new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of its new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of the Tri. "new generation" cropped-fan Boeing is likely to formally the new version of the Tri. "new generation of the Tri." "new generation of

contributions from both \$250m Type 146, a four-engined in this section of the future aircraft market.

The battle of the 200-seaters is now joined, with the B-10 directly slogging it out in world markets with the Boeing 767

recession that followed the oil jaunching of the Boeing 767, Industrie, in which there would participate in the development for up to 350 aircraft, repre- Underneath the 747, h

The Boeing wide-bodied twin-engined 767 is one of the new generation of shortto-medium haul jet airliners for the mid-1980s and beyond. This 200-passenger

where the future re-equipment situation seems uncertain. The so-called "feeder-liner" market, for example, in which small 70 to 100-seater airliners are

been under discussion for most version of the aircraft is also

things all its own way.

Thus, the 146 may not have —that is, an airliner seating new developments now under things all its own way.

Thus, the 146 may not have —that is, an airliner seating new developments now under things all its own way.

business.

It is thus in this short-to-medium range section of the fairbus Industrie, the much fewer than either the 7-47. Lockheed programme to promedium range section of the fairbus Industrie, the much fewer than either the 7-47. Lockheed programme to properly market that must of the interest where Airbus Industrie, the fairbus Industrie, the same time, there is a stage—those seating of jets, however, yet another the design of collaboration on the fairbus interest where Airbus Industrie, the gestation stage—those seating of jets, however, yet another the gestation of the much fewer than either the 7-47. Lockheed programme to propeller market that must of the interest where Airbus Industrie, the much flewer than either the 7-47. Lockheed programme to proposed of the pushed shead rapidly with some market, in the long-range field, DC-10 or Tristar, but which to woo connectivate, the gestation at stage—those seating of jets, however, yet another the question of collaboration on pushed as a factive. Some work has been timed, they say seems connectivation in manutacturers on both summer formally issunched its past four for the big Boeling 747 Jumbo useful on those very long routes a wide-died airliner seating with orders and options from with which to woo the airlines. The latter for a long time of where trained the three the the 7-47. Lockheed programme to proposed the way seems considered for a connectivation of manutacturers on the suit of the factive and part of the factive. Some work has been time, there is the way seems cloud, very long range, do not not the summer formally sinusched its summer formally sinusched its summer formally issue the summer formally issue the summer formally issue the summer formally sinusched its summer formally sinus

aircraft, capable of flying over distances of 2,300 statute miles, has been ordered already by United Air Lines, the biggest airline in the Western world, thus launching Boeing's \$1.5bn development programme for the jet. It is the first new Boeing aircraft design to go into production since the 747 Jumbo jet in 1966. expanding at an average annual rate of about 8.7 per cent a years, for the longer-term, a all of around 42,000 lbs thrust. Increasingly unacceptable in the increasing increasing in the increasing increasing in the increasing in the increasing in the increasing increasing in the increasing increasing in the increasing in the increasing increasing in the increasing increasing increasing increasing increasing increasing increasing increasing increasing in the increasing increasing increasing increasing increasing inc

increasingly stringent noise regulations are introduced at many of the world's major airports.

An analysis of this expected expenditure shows that more expenditure shows that more expenditure shows that more there half of the problem with most of to 100-seater airliners are ably. So far, no airlines have likely to contemplate it. Both the manufacturer is developments which some of ably. So far, no airlines have likely to contemplate it. Both the manufacturers seem keen noise are ably. So far, no airlines have likely to contemplate it. Both the manufacturers seem keen placed orders for this "feeder" and more fuel-efficient at their development of the manufacturers seem keen the governmental demands for long-time of the manufacturers seem keen and environmental demands for long-time of the manufacturers seem keen belief or this "feeder" but it is a market that the major manufacturers will be so substantial that the ties round the world which have expenditure shows that more are introduced at able to carry larger payloads as able to carry lar The first of this "new off, and a new fuel management generation" of short-to-medium system.

The first of this "new off, and a new fuel management accounts the base of the solution of the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports, is second-hand twin-into such as the burden of costs and into bigger "bub" airports are the burden of costs a spread the burden of costs and into bigger "bub" airports, is second-hand twin-jets such as to "stretch" the DC-10 from its and factory capacity on their building the bigger "bub" airports, is second-hand twin-jets such as to "stretch" the DC-10 from its and factory capacity on their boeing 737s, McDonnell Douglas present 282-seat configuration to more immediate objectives— Italy and has been discussing
with the Japanese aerospace
industry plans for substantial
contributions from both

This summer, the UK Governindustry plans for substantial
contributions from both

The summer of the UK Governindustry plans for substantial
contributions from both

There are some other new likely that these manufacturers share of the large markets in
types of aircraft that are will have the "big tri-jet" field the short-to-medium range field

There are some other new likely that these manufacturers share of the large markets in
types of aircraft that are will have the "big tri-jet" field the short-to-medium range field already challenging the 146, to themselves for the rest of this - that it may be some time

> Below this 200-seater category At the same time, there is The plan is for the 146 to be At the upper and of the much fewer than either the 747, Lockheed programme to pro-6,000 nautical miles: while lower noise leve Boeing is proposing its 777 types of aircraft.

There is only one modern jet that can generate regional traffic profitably. The new Folder F28: Great where others are too big.

medium hack tow to medium gersity roules. Where you need let seried and pomicitio meet passenger demano. Where trailic is. outgrowing your furbeprop capacity - but still a long way from

give you something it other let.

can Profusbility on the short and.

hilling other jet aucralis ine jump from say 40 to 130 seeks is simply too big. You need something in between to make the move to jet equipment a commercially viable

Proposition. You need the dest Politice

ned to make a profit where othe jets can't - on the short and medium haul, low to medium

Thanks to its 60/85 passenger capacity which is just right for these runs. Generaling more traffic. Offering healthy growth cotentials

which will save you money on navigation and landing fees. Thanks to its fuel economy which is the best of any commercial jetiner in production And thanks to its latique-

resistant arriame and low-noise

Rolls-Royce 555-15H engines optimized for short cycles and Jong service life...* thyou want to know more about herrow Forker F 28 just call or

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while to Folder VFW international.

the fokker f 28 - air anglia now operating the fokker f 28 - air anglia now operating the fokker f 28 - air anglia now op



Big market for helicopters

civil market.

The major growth areas for the helicopter are in the oil, Battles gas and mineral exploration and development fields, executive transport, agricultural battles that is developing is applications, law enforcement, light twin turbine-powered emergency medical services of general-purpose helicopter delicopter emergency medical services of general purpose helicopter all kinds, and "heavy lift," for notably the 12-passenger example in the construction and Sikorsky S-76, and the Bell

Emerging

new uses for the helicopter are operations such as in search and operators in the "utilities" field, emerging, especially in the agriemerging, especially in the agricultural industry, where their
flexibility is ensuring a growing
employment in crop-spraying
and supply dropping, while in
the first gold the agritescue for the U.S. Coastguard,
where a competition for a new
helicopter is now in progress.

Captured

Captured

Lynx orders for over 280 aircraft, over 65 have been
delivered, while in the joint
Anglo-French Gazelle prostand at well over 100 aircraft.
In Western

The first gold the agriin the military field Sikoretary

The first gold the agricraft, over 65 have been
delivered, while in the joint
Anglo-French Gazelle profour gramme 800 aircraft have been
delivered the first gold the gramme so aircraft have been
delivered the gramme so aircraft have been delivered the gramme so aircraft have been delivered the gramme so aircraft have been delivered the gramme so aircraft have been delivered the gramme so aircraft have been delivered the gramme so aircraft have been del

surveying work. helicopter have helped con-siderably to bring this branch variant of the Black Hawk, the between Westland and Aéro- tank helicopter, between Aéroof the world areospace industry SH-60B, has also been selected spatiale on such aircraft as the spatiale and MBB. Aérospatiale, to maturity. Coupled with this by the U.S. navy for the Light Lynx multi-role helicopter, the now rapidly emerging as one has been the fact that the manu- Airborne Multi-Purpose System Gazelle liaison aircraft, and of the world's major civil helifacturers have devoted consider- (LAMPS), calling for a product the bigger Puma tactical trans- copter manufacturers, with ably increased attention to tion run of more than 200 air- port helicopter. These three air- over half its output for civil improving the technology of the craft worth more than \$750m. craft have been developed purposes, is working already on helicopter, with more reliable Lamps missions will include under the long-standing Anglo- the Super Puma, a higher perrotor-heads, more efficient com- anti-submarine warfare and French helicopter package, formance derivative of the existposite materials, improved enti-ship surveillance. Sikorsky control which over 1,800 air. In Puma developed under the power-plants and airborne elec- has plans for commercial craft have now been built, of Anglo-French package, and also

THE HELICOPTER is now one plans round the helicopter as a for the coming year is already from the mid to late 1980s, of the fastest growing areas of logistics, work-horse, troop high, with production of some including a new anti-tank helicopter of aircraft and in the carrying system—the "helicop-ing the single-turbine model 205 use of the finished civil and ter gunship" concept. As a and the general purpose twinment for the Sea King helicopter, single-turbine model 212, with copter, Each of the four main number of flying hours per-helicopter design and develop-deliveries of these expected to for aircraft in one or other of nowhere pear the volume of emerging and more are the 1977 level. The sales backnowhere near the volume of emerging and more are the 1977 level. The sales back- these areas, and they have colthat by fixed-wing aircraft, it is expected over the next decade, log is reported to be strong for lectively been studying the

major manufacturers remain year it will deliver over 1,100 compared with 334 last year, ordination of requirements and convinced that this figure will units, with a value of \$425m, with continued emphasis on timescales, to be submitted to continue to grow, probably The manufacturers say that they such models as the piston the next meeting of the Defence doubling every three to five were not able fully to meet the powered 300C three-seat light Ministers in early 1979. From years, with special emphasis on demand that built up in 1977, helicopter and the larger model that meeting, it is hoped that the development of new types and it is likely that this pres- 500D. The latter is some decisions will emerge that of aircraft for the expanding sure will be sustained in 1978, aspecially prominent in com- will crystallise much of the curcivil market. pany and executive markets, rent thinking into firm indus-while the 300C is of interest in trial design and development agricultural aviation and pilot programmes

deliver 120 aircraft, against 102 to move in these directions.

craft cannot use.

The corporate executive the S-65C, is under considera. There is a growing demand for As to current programmes, the S-65C, is under considera. There is a growing demand for As to current programmes, to the S-65C, is under considera. There is a growing demand for As to current programmes, to the S-65C, is under considera. There is a growing demand for As to current programmes, to the S-65C, is under considera. There is a growing demand for As to current programmes, to the S-65C, is being especially in the offshore oil and future sales of Sea King and particularly significant for the developed for the U.S. Navy gas industries; and in the con-Commando helicopters will be developed for the U.S. Navy gas industries; and in the con-Commando helicopters will be developed for the U.S. Navy gas industries, sustain the company's present in demand for the consideration of this already for the consideration. between 200 and 300 miles, has
encouraged the manufacturers helicopter designed for come it could get certification for the helicopter designed for come it could get certification for the for the Lynx multi-role helicopter designs to civil use or to "custom design" new aircraft for this purpose, especially in the light twin-engined area.

The S-76 is a new all-weather and Boeing-Vertol has said that is also confident of more sates for the Lynx multi-role helicopter designs to civil use or to "custom design" new aircraft for this purpose, especially in the light twin-engined area.

The S-76 is a new all-weather and Boeing-Vertol has said that is also confident of more sates for the Lynx multi-role helicopter designs to civil chimook some 27 months decision to buy the aircraft, thus launching in Spain as well as the Middle general utility. It is claimed to the programme. Boeing is sated that it could get certification for the Lynx multi-role helicopter, especially of the Navy buy the aircraft, thus launching in Spain as well as the Middle general utility. It is claimed to the programme. Boeing is Lynx, with interest being shown in Spain as well as the Middle general utility. It is claimed to the programme. Boeing is Countered to the programme are also confident of more sates for the Lynx multi-role helicopter are customer's decision to buy the aircraft, thus launching in Spain as well as the Middle general utility. It is claimed to the programme. Boeing is also confident of more sates for the Lynx multi-role helicopter are customer's decision to buy the light copter, especially of the Navy that interest being shown in Spain as well as the Middle general utility. It is claimed to the programme. Boeing is also confident of more sates for the Lynx multi-role helicopter are customer's decision to be light copter. which result in improved speed, at least six commercial Chinooks Sea King to date of 183 aircraft, range payload, fuel economy, a year for North Sea oil operations and reliability. The \$-76 also tions alone, every year through has potential non-commercial to 1990, with many other sales to operations such as in search and operators in the "utilities" field.

In engineering, they are being Black Hawk or UH-60A for the schmidt-Bolkow-Blohm of out of 700 ordered.

U.S. army. This will be one of Western Germany and Agusta In the meantime, a number

restructuring their models are concerned, demand types of helicopter for service

Inat by fixed-wing sircraft, it is expected over the flext decade. fog is reported to be strong for fectively open studying the nonetheless rising at a spectacular rate, especially throughout ments are the U.S. helicopter Ranger series. Bell expects to an industrial basis on one or manufacturers. During 1977, deliver about 110 helicopters to more of these new types. At this world, and is expected to continue. So far as sales are continue. So far as sales are concerned, it is estimated that of about \$400m, compared with year.

The same is for the Chiefs of Staff of the these amount now to more than the continues. these amount now to more than 775 aircraft, worth about \$306m, Hughes Helicopters anticifour countries, in conjunction 21bn worth of aircraft a year in 1976. The U.S. industry's own pates that this year it will with the helicopter industries to world-wide, and most of the estimate is that in the current deliver about 365 civil aircraft, produce a report on the co-

all kinds, and "heavy lift," for notably the 12-passenger rexample in the construction and forestry industries.

So far as the oil, gas and of which will become available reserves are extended, so is demand likely to grow for vehicles and equipment to exploit those reserves, especially in the immediate offere areas in many parts of the world. The helicopter is other transport purposes. The grammes, in view of its inherent flexibility—its ability—its ability—

in demand for smaller, comfort- heavy-lift transport. Equipped The Commercial Chinook has production capability of 11 to able civit helicopters to take with three engines, it is more already aroused the interest of 2 aircraft a month for some executives directly from powerful than the S-65, and has British Airways Helicopters, for time to come, with follow-on factory to factory, especially in a payload capacity of over 16 use in its extensive North Sea orders from Sea King the U.S., over distances of tons.

One of the Company of the U.S., over distances of tons.

oil and gas support operations, customers likely. The company between 200 and 300 miles, has The S-76 is a new all-weather and Boeing-Vertol has said that is also confident of more sales

Lynx orders for over 280 air-

and supply dropping, while in the military field, Sikorsky manufacturers dominate the delivered out of more than 900 creasingly being used for log is developing a new utility scene — Westland of the UK, on order, while close to 600 ging operations and fire-control.

Rest Hawk or III and for the Christian Carried France, Messer- Pumas have also been delivered.

purposes as electric transmis, the most significant helicopter of Italy. These four companies of other new helicopter desion line construction, and aerial programmes for the 1980s, with have already captured substan- velopments are under way in a stated requirement for 1.107 tial shares of world belicopter Europe. France and West Ger-These specialised uses for the aircraft, representing over business, especially with the many are jointly developing power-plants and airborne electronics systems, thus giving the derivatives of both these airwhich over half have been vehicle a new capability, craft, the 20-passenger S-78-20 exported outside the UK and broadening its range of uses, and the 29-passenger S-78-29. Helping to bring down costs, and the 29-passenger S-78-29. Among the other big manuflus helping to improve its productivity.

And the same time, the demonstration flying with its military uses for helicopters new model 222, and expects to have also been expanding, with have the aircraft certificated for recently signed a Declaration of Japan on the BK-117, and eight to 12-seat multi-purpose light helicopter.

And the same time, the demonstration flying with its factures of the UK. West have also been expanding, with have the aircraft certificated for recently signed a Declaration of Japan on the BK-117, and eight helicopter.

And the same time, the derivatives of both these airwhich over half have been built, of on a new version of the twintends to Submit to the current competition in the U.S. to find a helicopter wentures are now demonstration flying with its Ministers of the UK. West have also been expanding, with have the aircraft certificated for recently signed a Declaration of Japan on the BK-117, and eight helicopter.

And the same time, the demonstration flying with its Ministers of the UK. West have also been expanding, with have the aircraft certificated for recently signed a Declaration of Japan on the BK-117, and eight helicopter.

And also on a new version of the twintends to Submit to the current competition in the U.S. to find a helicopter for the Coast Guard Service. In Western Germany, of Japan on the BK-117, and eight helicopter.

M.D.



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Space programmes switch emphasis

following the completion of the Solar or planetary orbit.

is to get the best value for every. space dollar spent, and more Probes and more unmanned satellites and if necessary neutralise or next March, while Voyager 2, destroy satellites being used for launched on August 20 last-year.

of U.S. origin and 1,211 of mid-1981 respectively.

for telecommunications, weather several "deep space probes," in importance for mankind. "earth cluding the Pioneer spacecraft One of the most significant resources monitoring " (ranging en route to Saturn, and conform mineral survey to the tinuation of the current unmanned appliform mineral survey to the tinuation of the current cations, technology satellites in the long term is the European fish shoals), quite apart from spacecraft have been despatched Orbital Test Satellite (OTS), towards to launched for defence purposes both Jupiter and Saturn. As of military purposes by the other had flown over 709m miles and

following the completion of the Solar of planetary orbit. has been making extensive use works. In addition to carrying uons, weather rorecasting, and most spectacular space mission. So far as manned spaceflight of its Salyut 6 space station. a portion of existing intra-earth resources monitoring functivolving the landing of several the total of man-hours spent in ments in space now under the total of man-hours spent in ments in space had reached 38,144. serious study in the U.S. is a will provide an improved means stationary satellite (that is, a will provide an impro has been making extensive use works. In addition to carrying tions, weather forecasting, and Now, with funds much tighter countries had achieved the same energy from the sun by means owned and managed by Eutel- Europe include the possibility than in the past, the objective number of flights at 31 each.

of vast "solar arrays" — blocks sat, an organisation set up by of extensive data transmission is to get the best value for example. of panels many miles square the European post and tele at high speeds, for example for transmission to Earth by communications administrabetween computer centres or microwave beams. Initial studies tions. The European Space databanks, or the transmission The growing emphasis upon have been funded by Congress Agency itself is expected to of information to be printed, variety of both scientific and deriving the greatest possible _\$25m is being spent in 1978. supply, launch and maintain in such as documents or news"applications technology" practical benefits from space 79—but any ultimate ventures orbit the satellites required papers. Direct satellite broadmissions. The latter are in does not mean that interplane of this kind would clearly cost by Eutelsat—it has already casting—that is, the transcreasingly becoming dominant, tary exploration has been dismany billions of dollars, take approved production of two mission from satellities straight as a straight of the mission from satellities are straight of the mission from satellities. as the pressures increase on missed as being of no value. Far years to complete, and would satellites — while individual into TV sets in people's homes governments to ensure practical, from it, for the current budgets become major international countries' own postal and tele—is another area under study, usable returns from space. The of the U.S. National Aero—"space spectaculars" eclipsing communications organisations Shipborne receiving stations are list of unmanued satellites nautics and Space Administrate wen the manued Moon landings will be responsible for the con- already making possible the grows longer virtually daily— tration includes funds for in significance and long-term struction and operation of their direct communication via satelrespective earth stations.

But while the launching of tem). Today, more than 125 the OTS-2 is a major step ships and offshore facilities are those less-publicised satellites already on "fly-by" missions to the second of which was towards the goal of a European now equipped with mobile launched for defence purposes both Jupiter and Saturn. As of successfully launched from regional communications satel-terminals to provide communications to provide communica the U.S. and the Soviet Union year, had flown close to 885m destroyed last September when in Europe is to win a share of Because or one current destroyed last September when in Europe is to win a share of Because or one current and even "hunter-killer" miles through space, and was its U.S. launcher exploded what is expected to be growing emphasis on unmanned sately of technique and the satel destroyed last September when in Europe is to win a share of Because of the current 20 per cent, the rest coming round its U.S. launcher exploded what is expected to be growing emphasis on unmanned sately shortly after lift off. The OTS-2 market for regional satellite lites for a wide variety of technical satellite. Radical is intended as a precursor of systems throughout the world nological launched on August 20 last year, operational telecommunications in the years ahead. The ability applications, considerable signihad flown over 709m miles and other satellites for the to offer complete "packages" ficance attaches to the methods was due to close on Jupiter sarily which a small crew will be able to close on Jupiter sarily and other satellites for the to offer complete "packages" ficance attaches to the methods as a precursor of systems throughout the world monogreal and Switzerland. The Ariane is an acconventional rocket launcher the conventional method of future. In particular, it is of satellites are launching such satellites in launching unmanned payloads for the launcher into space. The objective of the mounted aboard the launcher into space in that a large rocket. As at December 31, 1977, the next July. Both satellites, having intended to pave the way for from the design, development the future. This in turn means and thus conveyed into orbit, into space, in that a large rocket the costs of space missions, total number of spacecraft of photographed the face. of the operational European Com- and manufacture of the space that increasing attention is whereas the Space Shuttle will launcher. various kinds (mostly satellites) Jupiter, are then due to swing munications Satellite (ECS) vehicles through to the pro- being devoted to the two tech- include a manned "Orbiter" inject into orbit a specially particularly the cost of launchlaunched from Earth had on in space for an encounter system, in which four opera-vision of ground stations and niques now under development vehicle that itself will go into with Saturn in late 1980 and to optimise on the European Space Agency's orbit and be the satellites will be a manufacture that the technology already acquired of U.S. origin and 1,211 of mid-1981 respectively.

in the 1980s. A feature of the gears them into individual Ariane rocket launcher system, carrier. Soviet origin. Included in this But unmanned interplanetary OTS-2, bowever, is that it is in countries own local telephone and the U.S. National Aerototal were no less than 69 Lunar "deep space" probes will conmissions (36 U.S. and 33 Soviet tinue to be the exceptions in —meaning that it involves a substantial business in the years tion's Space Shuttle reusable Ariane is set for mid-1979, with small crew will be able to under

the first full flight test of time. During those periods the
ment in space research. While
the first fully operational Ariane is set for mid-1979, with small crew will be able to under
the first fully operational Ariane take a wide unplace of the U.S. has said that the Space Union), mostly unmanned but future space developments, as basic design of "space vehicle" ahead. Europe is determined Space Transport System.

In one of manned Lucar landing space "near frontiers" of space for the ing a wide variety of payloads leave it to be won by the U.S. make Europe independently capable of launching satellites already probes totalled 40, of which the continues to grow. In addition years to come.

The object of Ariane is to becoming available the follow-from launching satellites into ing year. The ESA has already prescribed orbits, rescuing and approved the production of even repairing satellites already probes totalled 40, of which the continues to grow. In addition years to come.

The object of Ariane is to becoming available the follow-from launching satellites into ing year. The ESA has already prescribed orbits, rescuing and approved the production of even repairing satellites already probes totalled 40, of which the continues to grow. In addition years to come.

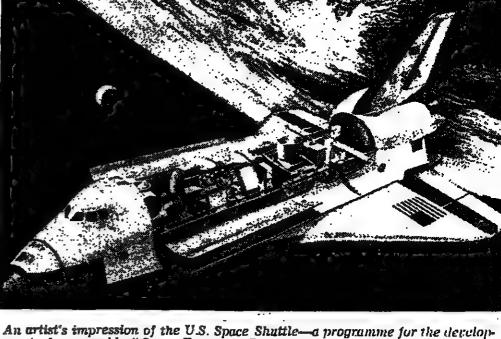
The object of Ariane is to becoming available the follow-from launching satellites into ing year. The ESA has already prescribed orbits, rescuing and approved the production of even repairing satellites already probes totalled 40, of which the continues to grow. In addition years to come.

The object of Ariane is to becoming available the follow-from launching satellites into ing year. The ESA has already prescribed orbits, rescuing and approved the production of even repairing satellites, there have been fears the work done on the OTS-2 throughout the rest of this center. probes totalled 40, of which the continues to grow, in addition years to come.

U.S. had logged 13 and the to the development of specific The future European Com- and other programmes, as well tury. If represents one of of these are intended for and variety of research experiments the U.S. might effectively come. i.S. had logged 13 and the to the development of specific. The future European Com- and other programmes, as well tury. It represents one of the follow- and practical activities in near- to dominate Western world of the total spacecraft uses, renewed interest is being programme itself is scheduled programmes in their individual programmes this decade. The ing ESA programmes: the Earth orbit. The Booster, space-launch technology. It is Of the total spacecraft uses, renewed interest is being programme itself is scheduled programmes in their individual programmes into decision to go ahead with Ariane scientific satellite Exostat (in having injected the Orbiter into orbit at the end of 1977 Earth orbiting "space will be used by the members of high technical competence in was taken in 1973, at the same early 1981), the Marots-B maris its prescribed orbit, will fail amounted to 956, of which 288 laboratories." The U.S., for the Conférence Européenne des the telecommunications satellite (mid-1981), and back to Earth, splashing down alternative develop their own alternative

OVER THE past few years, craft in Lunar orbit and 34 in while recently the Soviet Union based telecommunications net. In addition to telecommunicaadministra- between computer centres or - while individual into TV sets in people's homes lite with ships at sea (through the already functioning U.S. Marisat system and the forthcoming European Marots sys-

and commercial



ment of a re-usable "Space Transport System" now under way in the U.S. The manned Orbiter vehicle shown here, would be boosted into orbit carrying a crew which would live and work in space for several days at a time. In this picture, the Orbiter is shown carrying the Spacelab manned orbital workshop in its curao bay Europe's contribution to the Space Shuttle programme.

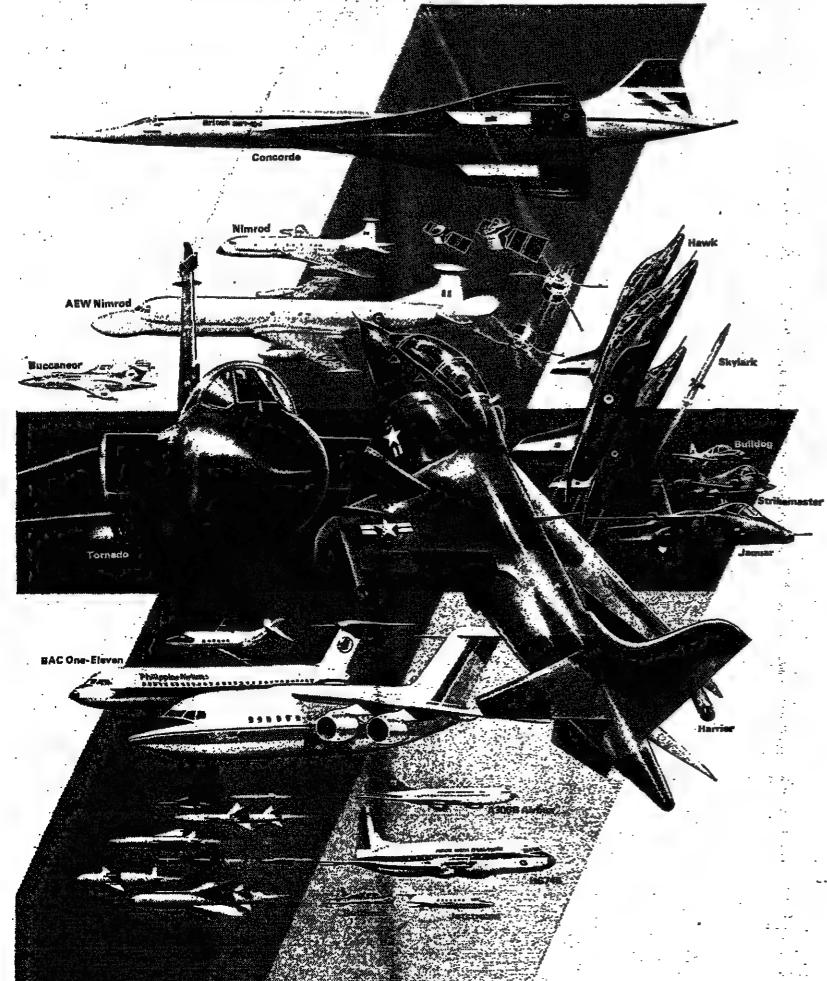
UK has only a small stake operational Ariane, a reserve treat, and then down to a (and the work) involved in its development (Frs 3,400m including a 20 per cent contingency allowance) being subscribed by collect customers, and it is missions in space. France (nearly 64 per cent), with West Germany the second the Netherlands, Spain, Sweden and Switzerland. The Ariane is

were of U.S. origin and 480 were example, has been studying the Administrations des Postes et field, which they must now build the Spacelab, the manned the first ECS satellite (end- into the sea for recovery and soviet craft. Most were in Earth possibility of reactivating its Telecommunications (CEPT) to translate into a commercial orbital laboratory which will be 1981). One launcher is intended refurbishing for future use. The orbit, but there were still 16 uwn Skylab for further use, complement the existing land- attack on world markets. Europe's contribution to the for the French Earth observa- Orbiter itself, its mission com-

U.S. Space Shuttle, and the tion station, SPOT, and will be pleted, will be flown back into Marots maritime satellite. The paid for by France, and the fifth the Earth's atmosphere by its (about 2.47 per cent) in the until it is assigned to a specific specially constructed runway at Ariane, the bulk of the cash programme will be financed by Cape Kennedy. Florida, where programme, will be financed by Cape Kennedy. Florida. where ESA member states. Thus it will land rather like an ordi-Ariane has already begun to pary large aircraft, and then collect customers and it is itself be refurbished for further collect customers, and it is petitor for the Space Shuttle The Orbiter will have a large through the 1980s and beyond. "cargo bay "into which will be through the 1980s and beyond.

The U.S. Space Shuttle represpacecraft capable of remaining over more than a decade of in space for long periods of

stowed satellites for launching while on some occasions it will carry the European Spacelab, a manned "orbital workshop" in

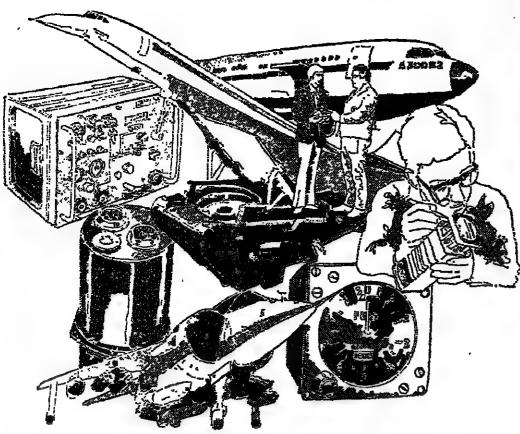


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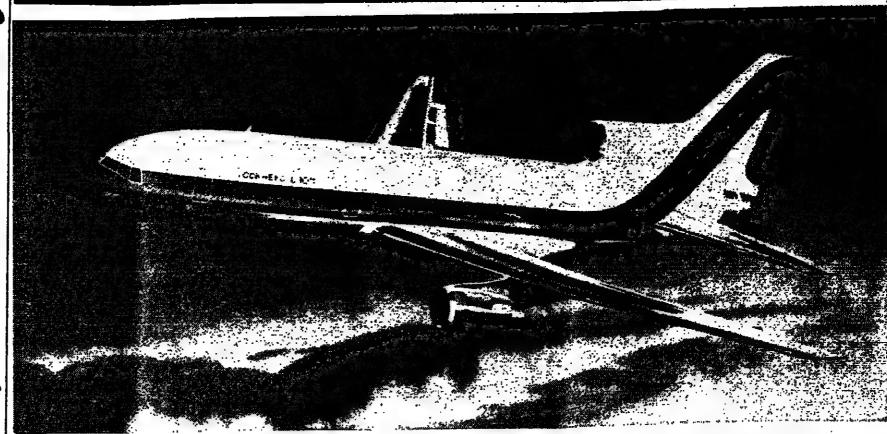
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The revolution in air transport

Governmental pressures in many of the major air transport genemost notably in Western Europe with enthusiastic support from and the U.S., in favour of much President Carter himself. be wrong to argue that the scheduled airline industry is Popular the U.S., have wanted to see.

past thirty years has been under- train, no-frills, walk-on, walk-off rates. Most of the scheduled air- ferences." by no means over, and it seems is worth remembering that for wait at least until this summer up a small nive-member last, themselves, instead of having likely that the scheduled car- all its current vigour in pro- season is over before maily force to analyse the problem governments do it for them. riers will have to face an ex- moting chapter fares, the U.S. passing judgment on the ultra- and to propose solutions. This is tended period of uncertainty. Government for years deliber, cheap fares experiment of turn resulted in the special The revolution has been sparked off by the intensifying Governmental pressures in many Governmental pressures in many and they were only a finally approved under the influ-

The breakthrough in the in- that it is making profits on Sky- in favour of a more rational things as standardisation of same quality of master with

even a year ago.

Command

command of the CAB and has to find alternatives. airlines. The wide-ranging Broadly, it will give to those consider them at its next meet-nature of the cheap fares that airlines who are members of ing in mid-September. It is the past summer have resulted to participate in the complex, their next full annual meeting in peak loads-but this time, time-consuming business of fix- in November in Geneva, they despite earlier gloomy forecasts ing fares and cargo rates will have a clearer indication of by the airline, they have been through what are known as how these reforms are going to matched with good profits. This "traffic conferences." Hitherto, be introduced. It must also be far as internal U.S. air services required that all its members ments of all the airlines conare concerned, the move to must participate in all its cerned have yet to approve the cheap fares in the U.S. has been affairs, including fares-fixing, changes in detail, and that there a success, and that they have Now, it is being proposed that are some airlines, and governmented sufficient new traffic generated sufficient new traffic airlines at each end of a given ments, who are not in favour of the chapter and make between the UK and the U.S.— Montreal. It is possible that by montreal the property that the chapter of the transfer of their load factors and make money Once again, however, many of the airlines concerned are tending to be cautious, and to refrain from comment until the summer season's results can be measured. But if, as now, seems likely, airlines really have benefited financially from the widespread introduction of the widespread introduction of the cheap fares, not only will Mr. Kahn's consumerist doctrines ketween their respective countaints and the U.S.— Montreal. It is possible that by the time the Executive Comment that they wish, opt out, and fix fares some of the Montreal decisions may have been substantially modified.

But what is clear from all this is that the world airline industry is undergoing rapid change, and that by the end of 1978 it will not be the same as it was between their respective countaints. The impact of cheap fares on able outside the U.S.

of the Association, recognised make. the signs that were emerging. In effect, this seems to be ence halls of the IATA, and the and warned the delegates that only giving recognition to what dust that it has raised will take they would have to move has become a de facto situation, some quickly if they were not to be especially on the North Atlantic, overtaken by events and by the where previous IATA fares

THE WORLD'S scheduled air-the pacemaker route for much towards cheaper fares has been reactions of governments to plans have frequently been lines over the past few months of what happens throughout the too rapid, and that rather than those events-in particular, the vetoed by individual airlines or have been passing through one rest of the world airline in generating new traffic the cheap reactions of the U.S. Govern by governments - and again of the most traumatic periods in dustry, came last autumn, when rates may have been drawing ment, which increasingly over especially the U.S. Government their history, in which virtually after a long battle, Laker Air. travellers away from higher recent years had shown itself —with

general meeting of the Associa- Rules

ence of Alfred Kahn, the newly- be held in October, at which a approved by a show of manus policies, the Montreal meeting rating agess of the world, but of the Civil Association Posts on the past summer the most par-reading changes of the Civil Aeronautics Board, on the North Atlantic will be in the Association's methods or held. If experience has shown operation since it was first upper the cheen target have in other directions, and that the cheap tares have in tact established in 1944. Basically, vice to passengers aboard generated traffic without dilutine programme of reforms will flights, Hitherto, the IATA rules scheduled airline industry is not, and has not, been in favour of cheaper fares—it has pioneered a number of major developments in this area over the past thirty years—it is true that it has always preferred to move cautiously, and to introduce those cheaper fares at a pace of its own choosing, with the result that it has sometimes been allower to result to have all the result that it has sometimes been allower to result to have all down the precise consolidation or even extension.

Once the Skytrain scheme had begun, however, it was inevitating profits, then the way of such that will be manuatory, dealing with a consolidation or even extension of such rates through the commondation of such rates through the co and revenues and reducing or crease two new severs or mem. have laid down the precise route. Subsequently, there can airlines are believed to have fully in these affairs, for they that behind it. This has meant been slower to respond to the development of market trends than some governments, such as the barrend forms that these cheap been badly hit), the outburst of are crucial to the smooth functions of the world scheduled that on most major air routes, than some governments, such as the proved immensely consumarist terrour that market transport system. They the same equipment, charging the U.S., have wanted to see.

The breakthrough in the in- that it is making profits on Sky- in favour of a more rational things as standardisation of same quality of meals, with troduction of cheap fares, train, there is still some reserve approach.

Along with this move towards are route, for long regarded as lines as to whether the move cheaper fares on the North Route and long traffic control technology are said which they rising to heights undreamt of inousend mission unliars, more in mob storing for the pest or business every year. These prices and quality of service are the "bread and butter," day- they can get to-day activities of the Associ-This has also been in large whole surine business and for be resolved is how far all these

shown that he intends to use it. The second planned new Montreal meeting, has been as an instrument to benefit the category of membershap is more working out the details of the consumer rather more than the complex in its operation. proposed changes, and is due to his efforts have produced on the Association the right to probable, therefore, that by the U.S domestic air services over decide whether or not they wish time the IATA sirines go to would appear to show that, so the Association's rules have borne in mind that the govern-

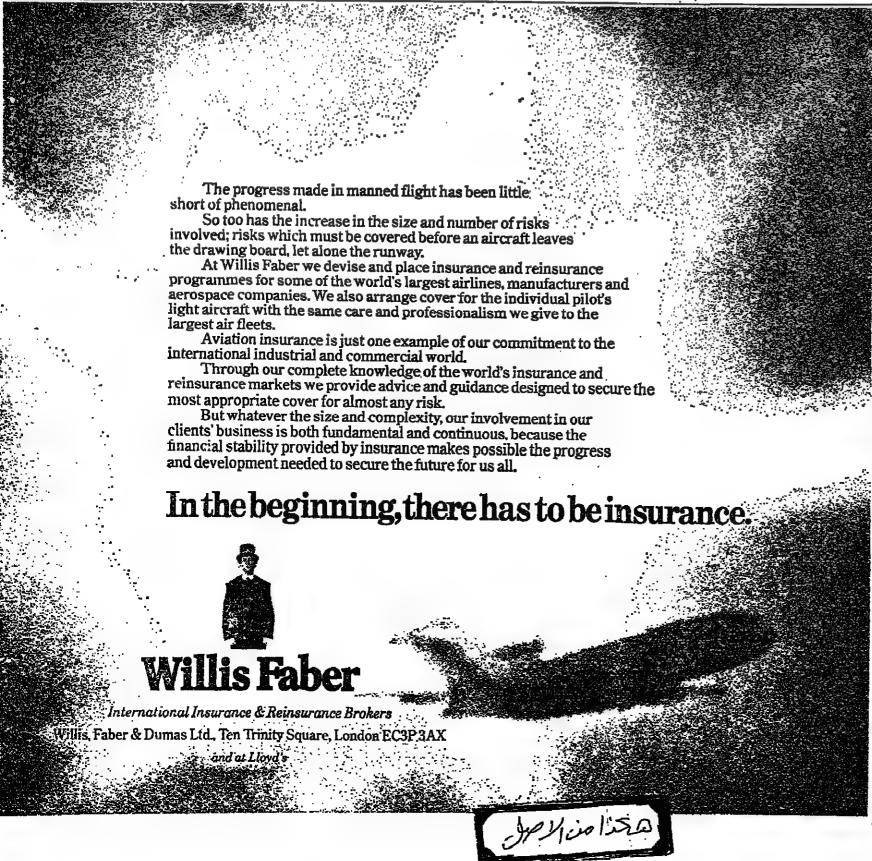
have been vindicated, but also tries without recourse to The impact of cheap fares on they will be more widely accept- the previous cumbersome many world air routes, coupled machinery of the IATA traffic with both an increasing rate of Coupled with this continuing conferences. This, it is felt, traffic growth if world economic move towards cheaper fares could make it possible for the conditions continue to improve, have been the measures to get major airlines on any route to and the internal changes that rid of many of the rigid rules respond more quickly to the these factors, together with and regulations which have rapidly changing circumstances more radical governmental characterised the scheduled air of the 'market-place, without attitudes to civil aviation, have lines' body, the International having to run the gauntlet forced upon the airline indus-Air Transport Association, for of fares conferences at which try, will all ensure that the many years. Only last Novem. small airlines with no direct industry is being set upon a new ber, at the IATA annual meet- interest in a given route might course. The wind of change has ing in Madrid, Mr. Knut Ham- otherwise be able to block any been blowing throughout 1978 marskjold, the director-general proposals the bigger airlines in the boardrooms of the world's

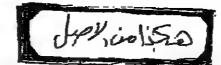
the entire shape and even the ways, headed by the ebuilient classes of fare, such as economy hostile to the basic tenets of the mental fares policies being concept of scheduled air trans. Sir Freddie Laker, was finally class and even perhaps IATA, and to the principle of negotiated and introduced port as it has developed over the able to start its cheap-fare Sky. Advanced Purchase Excursion name fares in major "tarinf con-instead. It could, if adopted, going change. This revolution, service between London and lines on the North Atlantic have As a result of Mr. Hammar-lines may revert to arranging for it is little short of that, is New York. In this context, it argued that they would like to skipid's warning, the IAIA set their own fares policies among

Apart from the possibility cheaper fares on the North rango, air trame control techniques and other safety matters, have been able to compete has move towards cut-price air legal affairs and most significantly in the U.S., and this past summer virtually "clearing nouse" through it is hoped that the airlines will every airline flying on domestic. routes there has been carrying manual transactions are produced transactions.

measure due to the efforts of which, it IATA were to collapse, reforms in favour of fares-lixing Mr. Kahn, who has taken firm governments would be hard put and the quality of service will get The powerful IATA Executive Committee, since the

> major airlines, and the confersome considerable time to





AEROSPACE IX



Events overtake UK airports strategy

THE GOVERNMENT strategy met by one of three options. At Heathrow the rising that delays to the expansion The UK Government, after for meeting the need for addifor meeting the need for addithere could be a major demand for air travel has lifted programme, including particulatempts at persuasion, has now tional airport capacity in the development at Stansted, conthe total number of passengers larly the fourth terminal at directed Iberia of Spain and the handled this year from the fourth terminal at TAP of Portugal to move to

existing airports. There would into four categories.

short and long term estimates of international services, includ-needing a 12-year "lead time" of the likely demand from air ing intercontinental and to develop, the BAA is anxious In the short term, up to 1990, tier by providing short-haul capacity at existing airports. the Government strategy en international services, a range visaged four ways of providing of charter services and domestic Authority, both the Advisory the extra capacity in the South services linked with the Gate Committee on Airports Policy the Government strategy en international services, a range

Authority's proposals for a structure, there would be Local by the Government, to consider fourth terminal at Heathrow Airports, meeting the traffic property solutions. Airport, London to raise capaneeds of scheduled passenger handling problems which are city by 8m to 38m passengers a services operated by sircraft regarded as inevitable in the year should be examined at a with less than 25 seats. They South-East in the mid-1980s, Public Inquiry. This is now would also handle general sitting and sifting evidence from aviation. the BAA, environmentalists and services and some charter DISCUSS local lobby groups. The White flights. Paper said there should be no At the bottom of the fifth terminal at Heathrow.

Proposals

the BAA to bring forward pro-truffic. raise capacity from 16m to 25m of sil of Britain's airports. But passengers a year. There should for the sir traveller, the airlines be no second runway there.

could be provided by a limited is that of providing extra capadevelopment at Stansted Aircity to match the forecast port, Essex, boosting the airgrowth in air traffic to the end part's capacity from im to 4m of the century, passengers a year. The BAA At Heathrow Airport alone, was urged to bring forward growth in passenger traffic so these limited plans for developing the airport.

which is owned and operated by now running at an annual Scottish airports run by the local authority, should have growth rate of 8 per cent, a rate BAA is now complete. a maximum passenger handling of increase likely to continue at capability of our passengers a least for the foreseeable future, the BAA in its five year plan

suggested that the uncertainties passing phenomenon. at the higher end of this range The Authority responded to Over 5m could be the top figure were such that the proposals the White Paper by saying that for the Scottish airports. would be sufficient to accommothe Government policy carried Cargo traffic is forecast to date the more likely air traffic a strong risk that capacity would grow at South East airports throughout the 1980s.

tional capacity. This could be needed before 1990.

could be met by expanding systems should be rationalised terminals.

way airports.

domestic

These organisational changes Catwick Airport, Surrey, to are certain to affect the running developments, so that time-Third, extra vapacity to 1890 the South East, the major issue

these limited plans for develop- far this year has outstripped March 1978 prices), of develop The White Paper recom forecast last year. The British of this is in the South East mended that Luton Airport, Airports Authority said it is Major redevelopment at the

These developments, if car-Government appears to have the UK economy. Terminal ried out in a planned and pro- conservative views on the pros- passengers at the South East gressive way would give the pects for air traffic growth. The airports are forecast to grow four London airports a total British Airports Authority, from \$0.6m in 1977/78 to 44.1m capacity of about 72m passen which owns and administers in 1982/83. At the Scottish airgers a year. This compared seven major airports, including ports the growth is expected to with a total forecast demand in Heathrow and Gatwick, is con1990 of between 66m and 89m vinced the recent acceleration in 1982/83. But demand at the passengers. The Government in the rate of growth is not a South East airports could range

growth in the London area not be adequate to meet demand from 575,000 tonnes in 1977/78 in the late 1980s, and that there to 914,000 tonnes in 1982/83 In the longer term, after 1990, was a strong likelihood that one At the Scottish airports the the Government accepted that of the longer term options in forecast over the period is from there was a likely need for addithe White Paper would be 39,000 tonnes to 48,000 tonnes

airport plans, published by the Outside the London and Lockheed TriStar and the Government in its White Paper south-east sree there was now Boeing 747 Jumbo jet, which an Airports Policy in February, excess capacity. The Govern-have coped with the rise in said extra capacity in the South ment proposed that services traffic without straining runway East to meet rising demand should be concentrated on fewer capacity. The national airports has been transferred to airport.

With the policy, and discussions have also been held with the Capadians, with the Scandinavians perhaps next on the BAA would also like to see the list.

Lynton McLain

With the possibility of up to be no need for—or possibility There should be Gateway 89m passengers each year at of—a new airport until then. International Airports provid- South-East airports by the late The plans were based on ing a wide range and frequency 1980s, and with new airports travellers and of the capacity domestic services. Regional air that there should be a minimum which should be made available. ports should operate as a second of delay with the expansion of

and the Study Group on South-

By bringing together represtructure, and essentially out sentatives of the Government side the demands of most air the Airports Authority, local travellers, would be the general authorities, trades unions, airaviation airports. These would lines, environmental groups and be concerned with business, other interested parties, the two Second, the Paper called for recreational and flying training bodies should be able to discuss recreational and flying training in detail the problems involved in detail the problems involved

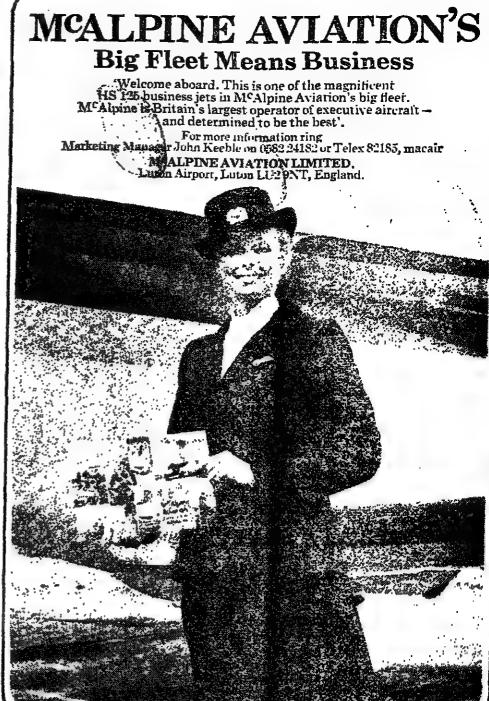
prospective new airport consuming delays such as Public Planning Inquiries can perhaps be either avoided or completed in good time so as to prevent unnecessary hold-ups in providing the new terminal capacity that is likely to be needed in the mid to late 1980s.

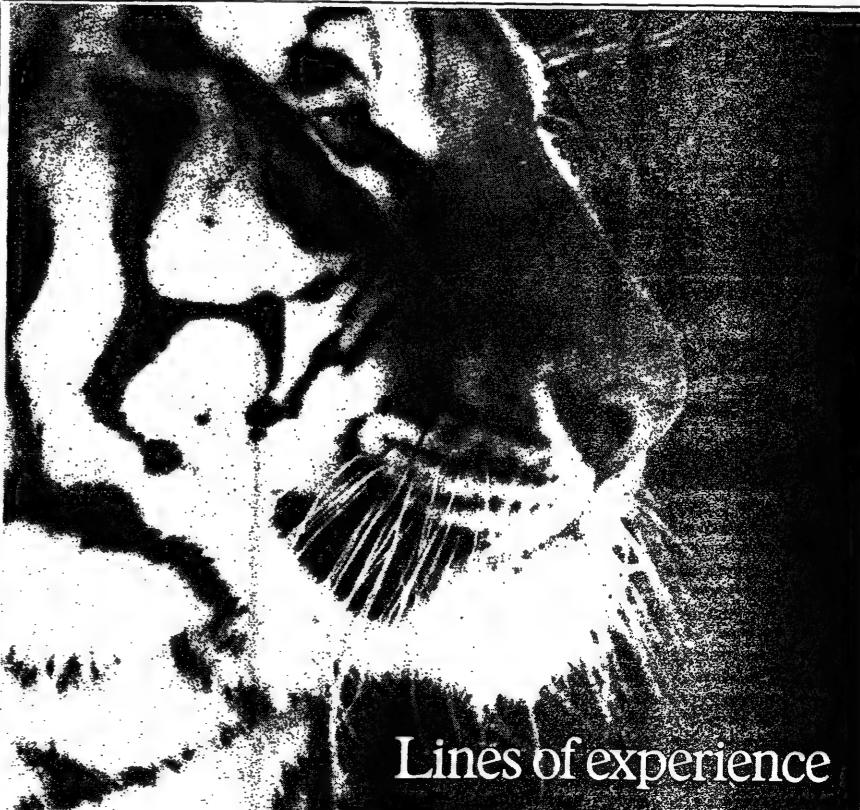
In the meantime, BAA has £243m five-year programme (at the 3 to 5 per cent increase ment at its seven airports. Most

The traffic forecasts used by In this scenario only the reflect the gradual recovery of from 39.7m to 48m in 1982/83.

The Authority has warned

tional airport capacity in the development at Stansted, con- use total manner of passengers larry the fourth terminal at South East of England may well version of an existing military to be handled this year from a Heathrow (likely to cost over Gatwick — a decision that is seen met by the seen met by be overtaken by events as a airport which could be de lucecast seem to some seem of the recovery in the veloped as a civil airport, or demand has been met by the for a more rapid increase in the cossions — but the UK intends result of the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the recovery in the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport, or better than the veloped as a civil airport than the veloped are the veloped as a civil airport than the veloped are the velo





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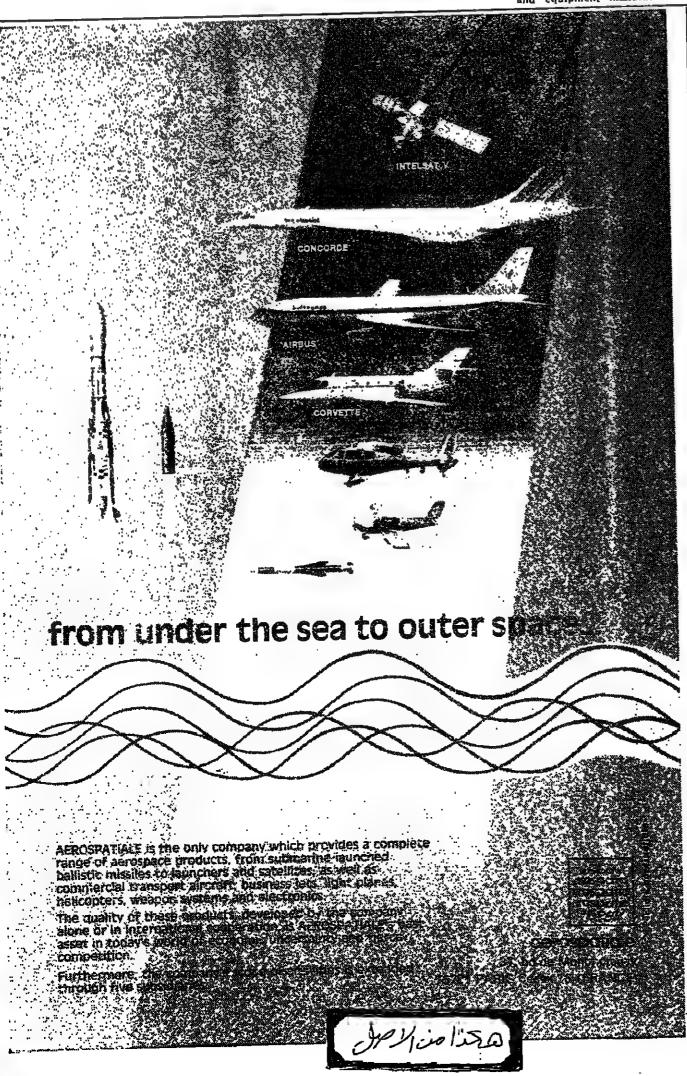
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Advances in airborne avionics

make during the show. Conse- including navigation displays. ment. quently, more than in any other area of aerospace, the avionics and equipment companies use the Farnborough (and Paris) air shows as launching platforms for new products, and this year's Farnborough display is no excep-tion, with a vast number of new

one-third of the value of a complex modern aircraft (and even more in the case of some of the more advanced military aircraft), this side of the world's aerospace industry has expanded rapidly in recent years, and is becoming of increasing importance as the emphasis grows in aviation on such things as automatic landing equipment, new marigational aids, collision-avoidance and storm-warning systems, and improved complex to the air air, he or she may at leisure troubles of the world. There can glider, according to the British incomplex to the air air, he or she may at leisure troubles of the world. There can glider, according to the British incomplex to the air air, he or she may at leisure troubles of the world. There can glider, according to the British incomplex to supply details.

It requires about 50 launches operated on pleased to supply details.

It requires about 50 launches for the student pilot to gain the experience needed to go groups. There are now approximately 21,000 to 22,000 holders from what may be the only hour but many enthusiasts join mately 21,000 to 22,000 holders from what may be the only hour but many enthusiasts join mately 21,000 to 22,000 holders are around £5 and the experience needed to go groups. There are now approximately 21,000 to 22,000 holders from what may be the only hour but many enthusiasts join mately 21,000 to 22,000 holders are around £5 and when the tow hook falls back to for the student pilot to gain the experience needed to go groups. There are now approximately 21,000 to 22,000 holders from what may be the only hour but many enthusiasts join mately 21,000 to 22,000 holders are around £5 and when the tow hook falls back to for the student pilot to gain the experience needed to go groups. There are now approximately 21,000 to 22,000 holders are around £5 and when the tow hook falls back to for the student pilot to gain the experience needed to go groups and when the tow hook falls back to for the student pilot to gain the case of the world. There can glider pilot to su

and equipment manufacturers would probably disagree.

In many cases the advances in single-engined sports models, leading edge of the wing of niques take advantage of new a British Aerospace Jetstream electronic aids have been so weight and compact design are small aircraft, giving warnings advances in electronics. great and the potential benefits among the primary criteria of nearby storms and thunder so cost-effective that airframe governing choice of new equip-clouds without the penalty of manufacturers have been able ment. Miniaturisation of electronics among the primary criteria of nearby storms and thunder and the growing use of Bedfordshire.

Additional application of cathode ray tubes application of cathode ray tubes to update, and almost redesign from the inside, well-established equipment has done a great launched this summer at less miniature television tubes can alreraft. This has extended the pircraft. This has extended the deal to increase the amount of than £3,000, is one of the cheap-life of the aircraft and led to discognize and the deal of the aircraft and led to discognize and the discognize and the discognize and the discognize and the discognize areas in amount of the aircraft and led to discognize and the discognize areas in amount of the aircraft and led to discognize and the discognize areas and the discognized areas are an areas areas are an areas are an areas are an areas are an areas are areas are an areas are an areas are an areas are an areas are areas are areas are areas are areas are an areas are areas are areas areas are are areas are areas are areas are areas are areas are areas are are areas are areas are are areas are areas are are areas are areas are areas areas are areas are are areas are areas are areas are areas are areas are areas are are areas are areas are are areas are are areas are are areas areas areas are are areas are are areas are areas are areas are are aircraft. This has extended the deal to increase the amount of than £3.000, is one of the cheap-life of the aircraft and led to disposable space in small, fixedest the development of derivatives. Wing aircraft and helicopters, eshentially similar in external appearance but housing radical are the smallest aircraft to be almost essential for all types of a range of cockpit and engine are greatest users in the smallest aircraft to be almost essential for all types of a range of cockpit and engine are the suspect its (48).

Minimizature television tubes can carry the first combine a variety of indicator spect its functions, including weather functions, navigation data and information, navigation data and appearance but housing radical are smallest aircraft to be almost essential for all types of a range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine are range of cockpit and engine greatest users in the combine grea

lary equipment in particular find taken place in the field of radar. Many rair displays like the forth equipment can vary from the coming Farnborough display next week a valuable show-case complex items offering up-to-linear their wares, and in many the-minute features, including the show colour radar screen indicators lustances they secure substantial business either directly because of whal is exhibited there or as a result of the new contacts with the U.S. Bendix Corporation, is also available now at a fractarity of whal is exhibited there or as a result of the new contacts with the U.S. Bendix Corporation, including navigation displays.

Britain.

Range and bearing information information is displayed in digital form in units now on the market. Similarly, the highter aircraft work is progressing on light air growing range of complex fuel management systems, performances they secure substantial colour radar screen indicators well as area navigation. Digital autophoto. The Smiths Industries' SEP.10 is a new digital/management systems, performance they secure substantial even for light aircraft. A complex fuel management systems, performance they secure substantial business either directly because of the lighter aircraft and the tield.

U.S. where Bendix and RCA at over £50,000, their is lighter aircraft work is progressing on light air the tield.

In Britain as well as the U.S. Similarly, the lighter extractive for the tied.

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In Britain as well as the U.S

space industry over the past to over zeon and radio, having the new nightweight weather and outsidess after the past to over zeon and radio having the larger business decade has been the rapid tion and radar aids nearly radar system developed by RCA. less than \$2,000 and some manufilled to the larger business. growth of the airporting equip 20.500.

The sutening sum much of the lacturers believe that this price jets, the summis equipment was ment sector, with particular. In the general aviation sector, electronics for the company's will fall further in the years developed as a joint venture. ment sector, with particular in the general aviation sector, electronics for the company's will fail retrief in the years developed as a point venture emphasis on avionics (aviation embracing all types of aircraft Weather-Scout I system is ahead as demand rises and as with the Department of Indusfrom business jets to light tailor-made to fit inside the design and production tech- try and is now being tested on

ONE OF the most significant achieved record exports, with Miniaturisation of recent Precise position-fixing equip istics common to sirring most all over the most significant achieved record exports, with Miniaturisation of recent Precise position-fixing equip istics common to sirring most as similar developments in the world aero- instrument exports amounting equipment is displayed well in ment can be bought for light lations. Sperry has a similar common to sirring most lation of recent Precise position-fixing equipment to sirring equipment is displayed well in ment can be bought for light lations. Sperry has a similar common to sirring most lation of recent Precise position-fixing equipment to sirring equipment is displayed well in ment can be bought for light lations. Sperry has a similar common to sirring equipment is displayed well in ment can be bought for light lations. space industry over the past to over £28m and radio, naviga- the new lightweight weather and business aircraft use for system which is already being

appearance but housing radical even the smallest aircraft to be almost essential for all types of a range of cockpit and engine greatest users in the general innovations in the avionics

Additional flight test work will be done on the British

appearance but housing radical innovations in the avionics equipment.

The manufacturers of avionics, components, systems and ancillary equipment in particular find major air displays like the forth
Taken place in the field of radar. Britain.

The major aim of cockpit and engine greatest users in the general aviation aircraft. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop equipment with this inertial navigation systems. The major manufacturers in develop

Flying as a sport

facilities for the intending type and the club. private pilot. Britain boasts Pilots Association has almost of enthusiasts for the powered for the second successive time, flying. 90 clubs in Britain in corporate glider, which uses a small piston during contests held at The other type of gliding, membership and all offer full engine for brief bursts of Chateauroux in France. Over without frills or a closed cock-part-time training facilities powered flight to gain access to 80 gliders took part. or part-time training facilities powered flight to gain access to 80 gliders took part, racing pit, is hapg-gliding. The British for those wishing to practise rising thermals or even to take- around a 500 to 600 km circuit Hang-Gliding Association, based and study for the pilot's licence.

of. Other ancillary fuel costs above the French countryside. in Somerset, estimates that

Authority there are minimum single-engined aircraft. to the private licence. There advantages over powered flight, noon's recreation above the ciation said the total was rising final choice depending on time which controls the sport in dotted around carefully chosen available and the degree of the individual standards for courses leading application of the individual

The first and most forms scheme involves training at an approved school with a minimum of 35 hours of flying to be completed within six months. On top of this students have to take a written examinaion on technical subjects including navigation and a general flying test.

This scheme of training is the most appropriate for students with all the time in the world for a concentrated hurst of training. For those who would rather take their flying train ing more leisurely, the CAP has authorised a 40-hour standard course which can be com-pleted over any length of time. Intending solo pilots must be over 17 years of age, hold a valid medical certificate and students must complete a minimum of 10 hours solo.

The one constraint is that the student has to complete the mandatory three written examinations within 12 weeks of each other and within six months of completing the required 40 hours of flying training.

Interest in the sport, or the obsession as it can become to some enthusiasts, shows no signs of tailing off, according to the Aircraft Owners and Priots Association. This is despite the estimated cost of between £800 and £1,000 for the competent student to acquire his licence on a single internal combustion-powered aircraft in the group A weight limit of up to 12,500 lbs.

The majority of British flying lubs cater for the student who wants to take his time over obtaining his licence. For the typical student, the exercise is hobby and time is not of the essence, so long as the traince pilot enjoys the exacting disciplines required in a fully competent pilot.

With equipment and systems THERE CAN be no doubt about When the student has com- emphasise the joys of silent 80 per cent of them offer weekof all kinds already effectively the popularity of leisure flying pleted his tasks and the flights of fancy in the gently long holiday courses — the
representing up to as much as when as many as 50,000 enthus pleasures of examinations in the swirling clouds above the easiest way to figure to fly a
representing up to as much as when as many as 50,000 enthus pleasures of examinations in the swirling clouds above the easiest way to figure to figure as the figure of the many at leisure troubles of the world. There can glider, according to the British
plex modern aircraft (and even for two Many more set pleasure bire one of the 517 seneral be no doubt that many glider Gliding Association, which is

to go wherever he wishes, as infinite highly for a single per routes as great as the current said its sport was growing at long as there is an airfield, son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per cent per annum, a population of the continuous son with a qualified pilot is world record of over 1,000 km. 6 per ce

Under arrangements laid arise during towed launches. For the amateur, or the aspir- there are now 5,000 adherents down by the Civil Aviation either by winch or by small ing world champion, gliding is to the sport in Britain. This

Nevertheless, whatever the charms of ballooning, hang charms of ballooning, hang liding or gliding, powered dreams against the reality of to earth. The name of the boots, compare favourably with dreams against the reality of to earth. The name of the boots, compare favourably with sports flying, gircraft may be gliding game in 1978 is to attain other sports, particularly sailting the participant hired for short flights. A 20- long distance cross-country lng. The gliding association with a qualified pilot is world record of over 1,000 km. A per cent per annum, a population of the boots, compare favourably with sports flying, gircraft may be gliding game in 1978 is to attain other sports, particularly sailting association hired for short flights. A 20- long distance cross-country lng. The gliding association with a qualified pilot is world record of over 1,000 km. A per cent per annum a population.

single-engined aircraft likely to be a good deal cheaper may represent a plateau of Gliding has some attractive than powered flight for an after-

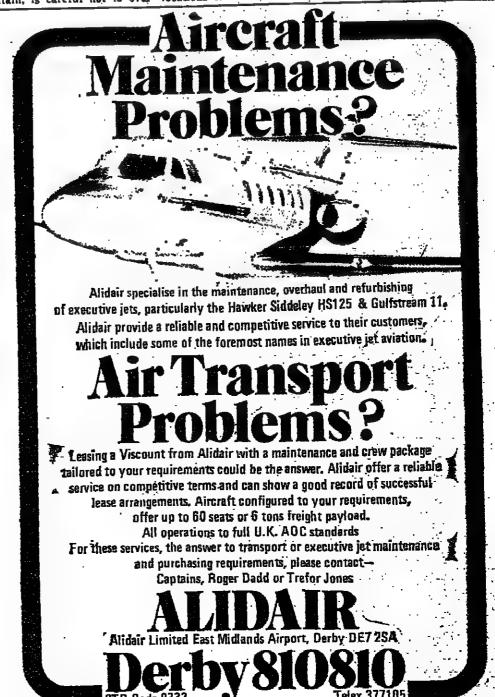
able exercise.

able exercise.

glider of the standard used by glider of the standard used by this year, the aviones and equipment manufacturers would probably disagree.

Nevertheless whatever the the attendance of the standard used by the attendance of the standard used by the standard used by the attendance of the standard used by the standard used b

One branch of leisure flying with a long history of glider is now so popular that clubs which is almost unaffected by design, manufacture and suc have waiting lists, a result also between 150 and 200 flying the rise in oil prices is gliding, cess in the sport Last month Mr of the shortage of land suitable clubs or groups of enthusiasts. "Almost" is the qualifying word George Lee, an RAE pilot, won for glider airfields under airclub of Change and the club of the shortage of land suitable clubs or groups of enthusiasts. because there is a growing band the world gliding championship space cleared for this type of





The Tornado multi-role combat aircraft, which will form the main strength of the RAF in the 1980s.

Operational boost for the RAF

THE RAF is now preparing is an all-weather, swinging-wing for the ADV in 1978-79 prices. Victor tankers. Hawk trainers a major step forward, with the supersonic sircraft produced by The overall production pro- are also now moving into ser

This aircraft, coming in such numbers, represents the biggest the aircraft is powered by two boost the RAF has had for new-technology RB-198 engines, that the eventual overall cost is coming into service with the many years, and it is likely not only substantially to improve its capabilities militarily, but also Rolls-Royce, Motoren-und-from a lack of adequate new equipment. Successive are for the RAF, 324 for the reductions in spending through Government cuts in overall defence budgets, and fallure on the part of Government to keep services' pay level's comparable with those in civilian life.

The increase of Italy, and the eventual overall over

from the service of a substantial total to 808, while the prospect directly, it will employ another qualified personnel, but also discounted. tasks. A similar number will be range supersonic bomber in service.

Basic

tasks. A similar number will be range supersonic bomber in service.

For this reason, considerable emphasis has been put in recent three countries, and involving will be of the basic version (the going some way towards type that will be delivered from meeting some of the complaints in the service, have certainly not gone far snough, and both

naissance aircraft and of Defence for the aircraft is a modified for tanker duties by might eventually also the Phantom unit production price of £7.9m British Aerospace. These will ficult combat aircraft. The Tornado for the basic version and £9.4m supplement the present force of At

gramme to adapt its AD 620 The latest to use the Marconi

Marconi expects the system to and a new head-up display

delivery in early 1980 of the an international company gramme of 809 aircraft is not vice. In the transport field, the first of what will eventually called Panavia, comprising likely to be costing the three Hercules fieet of tactical and become a force of 385 Tornado British Aerospace, Messer countries much less than about strategic transports are being multi-role combat aircraft. Schmitt-Bolkow-Blohm of West £7bn, while research and reconditioned to enable them to This aircraft, coming in such Germany and Aeritalia of Italy, development has to be added to serve at least until the late numbers, represents the higgest. The aircraft is powered by the this to serve likely therefore 1990s. The See King believester.

in the service, have certainly to the three participant new aircraft joining the RAF in borne Early Warning Nimrods not gone far enough, and both countries in the programme, the near future. A fleet of four the Sky-Flash air-to-air missile the drain on technicians and called the Interdicter Strike engined Nimrod anti-submarine and the improvements in the recruiting difficulties seem version (or IDS) and intended warfare aircraft is now being tanker force, will do much to likely to persist for some time primarily for battlefield inter- modified by British Aerospace help improve this situation, but to come unless further signifi- diction; close air support; at its Woodford, Lancashire, in addition, measures which are

qualitatively, at a time when equipped with a UK-developed the build-up of Warsaw Pact air-intercept radar, and with being used both by the U.S. conventional forces, including Sky Flash and Sidewinder air force and is planned for ing at a wide variety of new factical combat aircraft, is to-air missiles. The ADV is other NATO nations, and is including at a wide variety of new designed to loiter far out over tended to be compatible with combat capabilities in the Nichael Beetham, Chief of the approaches to be able to detect, submarine warfare role, the plant technology is bound to be aircraft and commented earlier identify and destroy enemy this summer: "We are still short aircraft at distant ranges. The vice are being progressively in the missiles. The 3 per cent growth than the basic IDS version, in the Defence Budget will give being delivered early in the use the welcome opportunity to 1980s. The prototype ADVs are push more resources in this now being built, and will fly direction, but we still have a during 1979.

System (AWACS), which is being used both by the U.S.

Beyond this, the RAF is look-ing at a wide variety of new developments to enhance its combat capabilities in the new submarine warfare role, the plant technology is bound to be existing. Nimrods in RAF ser-his look.

Beyond this, the RAF is look-ing at a wide variety of new developments to enhance its combat capabilities in the remaining at a wide variety of new developments to enhance its of the Nimrod. For the anti-future, when increasingly combat capabilities in the role of the approaches, to be able to detect, submarine warfare role, the notions, and is in-developments to enhance its of the Nimrod. For the anti-future, when increasingly combat capabilities in the role of the Nimrod. For the notions, and is in-developments to enhance its of the Nimrod. For the anti-future warfare role, the notions, and is in-developments to enhance its of the Nimrod. For the notions, and is in-developments to enhance its of the Nimrod. For the notions, and is

CONTINUED FROM PREVIOUS PAGE

The result of these problems progressively over the years and some 8,000 in equipment an attack across the Central and the service of a substantial total at 200 in the service of a substantial total at 200 in substantial and substantial at 200 in substantial and substantial at 200 in substantial and substantial at 200 in substantial at 200

to come unless further signification: close air support; at its Woodford, Lancashire, in addition, measures which are cant pay rises are permitted counter air-strike; naval strike; factory, to undertake the Airbonn.

It is for these reasons that sance. The remaining 165 the detection at an early stage of enemy aircraft approaching considerable emphasis on the a different model, the Air introduction of the Tornado, for Defence Variant (ADV), which in it they can see the opportunity of improving the RAF and the air defence of Britain, both quantitatively, at a time when equipped with a UK-developed System (AWACS), which is the RAF is look-

push more resources in this now being built, and will by RAF acced for a medium-lift that there are many other direction, but we still have a during 1979.

good deal of catching up to de. The Tornado will be capable orders 30 of the big Boeing prove useful. These include infine are to match the growing of speeds of more than twice Vertex H-47 Chinooks, costing proved methods of low-level inthreat to our country."

The Tornado is a multi-role with its wings swept back, delivered due to start around weapons such as Cruise Missiles, combat aircraft, designed to while the aircraft will also be mid-1980. Also, earlier this year, together with improved "electrolice a number of ageing able to land and take off at it was announced that the counter measures,"

RAF acced for a medium-lift that there are many other helicopter has been met by an developments than can also developments and developments than can also developments than can also developments than the continue than the aircraft in the service, including slow speeds on disparsed sites RAF's. long-range strategic and better techniques of target principally the Canberra with its wings swept forward. tanker force for refuelling complements and improved weapons accument strike aircraft, the light performance will be expended but aircraft far from base was and improved weapons accument strike aircraft, the high performance will be expended being arengthened with an interpretation of the costs are not fusion of up to nine VC-10 air revolutionary techniques as superiority aircraft, the Vulcan available, but the most recent craft, bought from airlines and "in-flight re-arming" is not interdicter-strike and recon- figure given by the UK Ministry now being refurbished and being overlooked although this naissance aircraft and of Defence for the aircraft is a modified for tanker duties by might prove technologically dif-

At the same time, consider-able emphasis is being placed behind the scenes on the development of the so-called the late 1980s. Currently known as Air Staff Target 403, the primary aim is to try to evolve a light-weight, fast, highly used with advantage by many be available on the general working with a HUD weapon manoeuvrable strike-attack airalreraft of all types for addi- aviation market within two aiming computer system taken craft capable of also bolding its

ional flight safety.

years. The company is expected from the American A-4M own in air-to-air-combat.

In the military field British to aim the greater proportion HUDWAC production line.

The zim is not to devel The aim is not to develop just companies have a world lead of sales of the new system at Ferranti is also in the fore- an improved Jaguar or a Super-in certain specialised areas the North American market, front of British aviouics deve- Harrier, but to try to identify the North American market, the North American market, the Decca Navigator Company through Canadian Marconi, at has receptly been awarded a mait price of slightly more contract from the British than £7,500.

Marconi Avionics, which is a Marconi automatic chart equipment is being fitted to the Westland/ Aérospatiale Gazelle beitcopters and similar systems have been advanced technology, particution for military applications. combat aircraft. Decca says there larly for military applications, is considerable export potential for the Doppler 80 system. At Farnborough it is expected to show the so-called monopower 1,400 of the earlier back in civil airliners. The latest to use the Marconi Avionics is nearing for use in a number of gramme to adapt its AD 620

advanced technology, particularly for military applications. One of the company's recent guidance systems and weapons capabilities. It is a formidable of a U.S. contract to supply its challenge, and one in which a contract to supply its challenge, and one in which a COMED 2035 moving map for the U.S. Navy A-18 of this new aircraft is proceed-to-boppler 70 systems were made, in civil airliners. The Donglas for the U.S. Navy A-18 of this new aircraft is proceed-to-by the completion of fixed and rotary wing spirorally used by 45 countries. The military field for some time, and Marconi has produced head-up display systems for use in a number of completion of a four-year pro-U.S. aircraft.

The latest to use the Marconi contract to supply its challenge, and one in which a COMED 2035 moving map for the U.S. Navy A-18 of this new aircraft is proceed-to-boppler for the U.S. Navy A-18 of this new aircraft is proceed-to-boppler for the U.S. Navy A-18 of this new aircraft is proceed. Hornet strike/fighter. The work will be carried out with the benchmark to be a produced on the posterior of the U.S. of international collaboration. When the air-craft reaches the production for it will be essential to craft reaches the production for it will be essential to The latest to use the Marconi phase, Ferranti is confident that supplement the Tornado in the to civil use. The system has production for the U.S. and the advantage of using existing European air forces. The F-16 in contract for its moving map the 1990s and probably even the advantage of using existing European air forces. The F-16 system with up to \$9.5m. beyond.

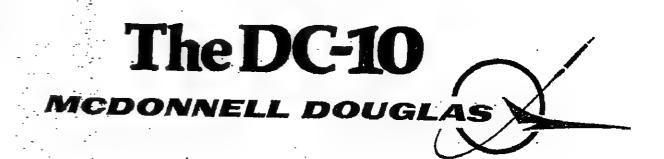


When economy counts... count to 10.

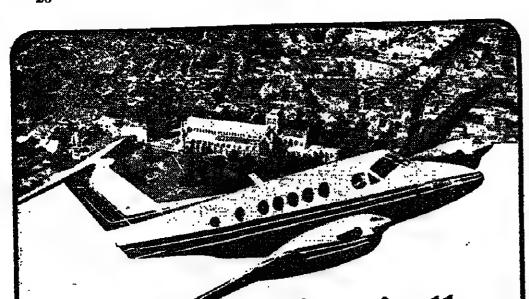
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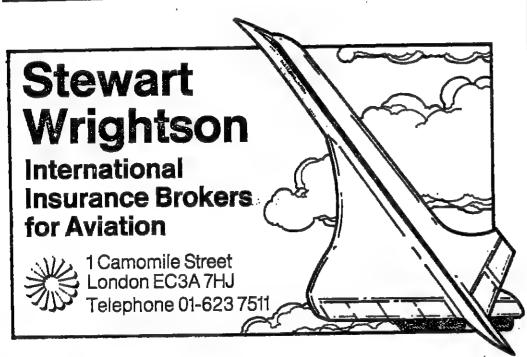
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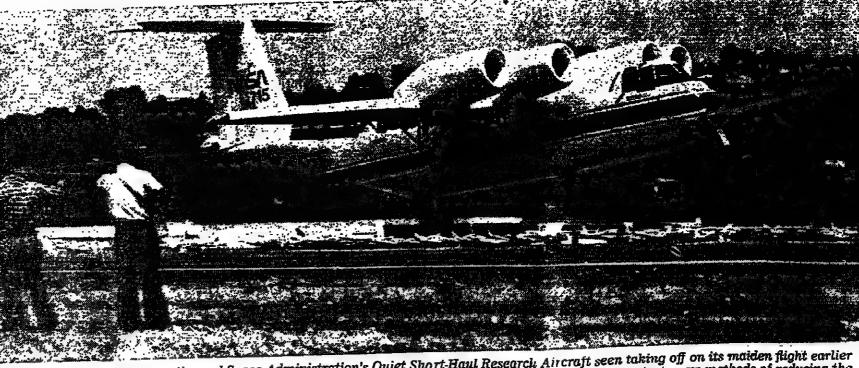
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The U.S. National Aeronautics and Space Administration's Quiet Short-Haul Research Aircraft seen taking off on its maiden flight earlier this summer from Boeing Field in Seattle. This one-of-a-kind research aircraft is intended to demonstrate new methods of reducing the noise of modern airliners and of shortening their take-off and landing runs. Both improvements will be essential for new airliners of the future, especially those on "bus-stop" type air routes.

Well set for progress

UNITED STATES

THE U.S. aerospace industry is their ageing 707s, and DC3s. well set to build on the solid By late August Boeing had than at any time this decade, Most attention has focused called upon to bear between 75 well set to build on the solid By late August Boeing had than at any time this decade, Most attention has focused called upon to bear between 75 gains established last year when taken 71 orders for the 727, with 318 aircraft to be recently on the 767 whose and 80 per cent of the start up considerable growth of airline ever, this had been more than highest backlog since 1973. But United Airlines. This is a 767s coupled, with Airlines traffic is helping to maintain a offset by a hefty increase in Lockheed was still far short of twin-engined wide-bodied air Industrie's decision to develop a read order rate for summercial order for the 737 and 747 sin. good order rate for commercial orders for the 737 and 747 airits best year, 1971, when it had craft with a range of 2,000 miles the 200-seater A-310 version of
alriners, while general aviation craft. Boeing has not booked orders for 104 aircraft and its and seating 180-200 passengers the A-300 Airous has led
business and military sales are more than 30 orders a year for

the peak years of the late 1960s. year. Nonetheless, last year's improvements were across the board and Orders included all four major product groups—aircraft, missiles, space

bumper one for Boeing, company had orders for 28 DC-9 mercial aircraft development at reason and partially to ensure the extraordinary McDonneil Douglas and Lock- jets and 23 of the wide-bodied a time when foreign competia flow of orders from foreign gramme.

McDonneil Douglas and Lock- jets and 23 of the wide-bodied a time when foreign competia flow of orders from foreign gramme.

John 358 orders compared to 202 in above last year's first half for ten years or more. Boeing foreign participation in the pro-1976 and 132 in 1975. At the beginning of the year most analysts expected this order rate to slow down, largely

this expectation has proved record 128 orders. correct as U.S. airlines complete replacement orders for demand, Boeing's order book at

sales, profits and order books which is slightly below the rate delivered. McDonnell Douglas, launch was confirmed in July costs. increased substantially. The of the previous two years. How with 123 on order, had the by an order for 30 aircraft from business and military sales are more than 39 orders a year for total at the end of June in a seven abreast configuration. McDonnell Douglas to about on also climbing steadily the 797 since 1974 but by late the 737 since 1974 but by late amounted to a modest 31. \$32.3bn which, though welcome, ing no less of a sales boom, with analyst with Drexel Burnham a transcontinental range. was actually worth less after 60 orders swept in compared to Lambert, reckons that commeradjusting for inflation than in a record 42 in the whole of last cial aircraft revenues for the

with net profit after taxes as a Pan Am. By late August the and Lockheed should, he says, percentage of sales increasing company had taken 18 firm begin to decline in 1979. from 3.4 per cent to 4.2 per orders, which was more than in In contrast, however, it is between \$500m and \$15n with \$10 most of the remainder cent.

demand for the world's most surprise many observers if greatest exposure, but also take was announced in August with successful commercial aircraft, McDonnell Douglas finished the greatest potential reward. It is the Italian state manufacturer, the Boeing 727. To some extent year with more than last year's now offering three new aircraft Aeritalia and this is expected

the end of June stood higher by pass ratio jet engines.

three companies together will top \$10bn in 1980 and that Boeing's profits from this sector

incorporating advanced wing to be followed by an agreement As a result of this strong technology, increased use of with prospective Japanese demand, Boeing's order book at light-weight materials and high partners. Such agreements not-

Third

The 757 is the third new may approach \$600m compared model planned by Boeing and Lockheed's L-1011 TriStar is to an estimated \$150m in 1977, is a twin-engined narrow-bodied. non-acrospace products, also having a good year thanks Meanwhile, commercial aircraft aircraft, seating 140 to 160 pas-Profitability was also better, to a round dozen order from losses at McDonnell Dougles sengers, possibly using the same

result of commercial aircraft ahead of last year. By the end because the aerospace industry be close to \$3.5bn over the next 20 per cent or more which is present of commercial afferent affect of size year. By the end occasion the settlement of commercial afferent affect of size year proved a of June the St. Louis-based is entering a new phase of com- five years and partially for this thought to be the yield from orders. Last year proved a of June the St. Louis-based is entering a new phase of com-

because of an expected fall in figures, although it would still is the company with the ject A shared risks agreement withstanding, Boeing could be Most attention has focused called upon to bear between 75

> Mr. Alan Benasuli, aerospace the 767 with the same fuselage, version of this type of aircraft, estimated at between \$50m and \$100m—the company may be tempted to try to win a small foothold in this market.

Assuming that Airbus and Boeing are the two major factors then it is thought that Boeing may capture two thirds of the ent.

Most of the increase in the pared with just two last year, the risks facing these companies 1983-94.

Most of the increase in the pared with just two last year, the risks facing these companies 1983-94.

The order rate at McDonnell are greater than 1 contrast, however, it is between \$500m and \$15m with available orders and the remainder. However, competition between the two will cut into profit adustry's order book from The order rate at McDonnell are greater than the two will cut into profit and ustry's order book from The order rate at McDonnell are greater than 1 contrast, however, it is between \$500m and \$15m with available orders and the A-300/. most of the increase in the pared with just two leaf, year. the risks lating these companies

the two will cur into profit
industry's order book from The order rate at McDonnell are greater than they have However, launch costs of the margins which means that
industry's order book from The order rate at McDonnell are greater than they have However, launch costs of the margins which means that
industry's order book from The order rate at McDonnell are greater than they have However, launch costs of the margins which means that
industry's order book from The order rate at McDonnell are greater than they have
39.7bn to \$44.3bn was the Douglas is also running well been for several years. This is 767/777 family are thought to Boeing is unlikely to gain the

John Wyłes

Business aircraft a growing fleet

executives come increasingly to from airports to perhaps widely mercial methods of transport. The Association delives that appreciate the greater comfort, scattered factories or offices. and could provide benefits to the interest in business flying is suppreciate the greater comfort, scattered factories or offices. and could provide benefits to the interest in business flying is suppreciate the greater comfort, scattered factories or offices. and could provide benefits to the interest in business flying is whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company, and not just to here to stay; and unlikely to whole company and not just to here to stay; and unlikely to whole company and not just to here to stay; and unlikely to demand to stay the fall suddenly, unless there is a further business already must be a dramatic downburn in business to stay the fall suddenly, unless there is a further business already must be a dramatic downburn in business to stay the fall suddenly, unless there is a further business already must be a dramatic downburn in business to stay the fall suddenly, unless there is a further business already must be a dramatic downburn in business flying is and could provide benefits to the interest in business flying is approximately and could provide benefits to the interest in business flying is approximately and could provide benefits to the interest in business flying is approximately and could provide benefits to the interest in bus

ing flying, gliding, and such small, could negotiate.

other aeronautical activities as "hang-gliding" and ballooning. Morale
But business aviation is one of
the most repidler the most rapidly expanding. It is really this operational likely to top £1ba.

of late 1973 and the subsequent industrial depression there was craft than when he is obliged a slackening in demand for air transport, business aviation remained one of the stronger elements in aviation; and recovered much more quickly, especially in the U.S. In the U.S. In the U.S. In the U.S. the recovery was slower, there are over 1000 business. 67 general aviation aircraft were sold compared with 83 in the whole of 1976.

manufacturers and representa- detailed evaluation of operating tives of general aviation economics and other likely operators suggests that this benefits. improvement is likely to con- For a business jet to be a

One of the most quoted advan- potential user would typically tages of the business aircraft is need to travel extensively

healthy demand will prevail for strips or local airneigs that are airframe and for passengers and an aircraft one day and lease some time to come.

"Business aviation" is part of them having customs crew salaries and expenses; it back from its new owners the many of them having customs crew salaries and expenses; it back from its new owners the maintenance; fuel and oil, and facilities laid on or available maintenance; fuel and oil, and maintenance; fuel and oil, and it should be available of flying out is used in place of a fixed-wing arranger transport.

Against these must be set the General Aviation Manufactured the public content aircraft. This operational fiextside the public-service transport aircraft, this operational next need for a greater number of operations conducted by the bility is considerably enhanced, overnight stays if the executive scheduled and charter airlines. Stemming from the ability to had been obliged to use scheduled are available of the from confined spaces that not only business aviation, but no fixed-wing aircraft, however also private, leisure and sport- no fixed-wing aircraft, however travelling time.

the most rapidly expanding areas of general aviation, which in itself is now growing rapidly.

The most rapidly expanding flexibility, of the business air which 550 are business jets. In craft or helicopter which, when Britain, where development translated into time saved is According to recent research translated into time saved, is by Frost and Sullivan, market accounting for the growing research analysts, spending by companies and individuals on aviation. Allied to the direct over 20,000 general aviation air. savings in cost and convenience craft during the next decade is is the less-quantifiable but nonetheless significant morale factor in that a busy and much While in the period immeditarely following the oil crisis time away from home when he of late 1973 and the subsequent has the use of a company air has the use of

UK, the recovery was slower, there are over 1,000 business but is now very strong, and in the first six months of last year jets in service around the world. A small number have been bought by rich individuals for their exclusive, personal use, but the vast majority have been All the evidence from aircraft bought by companies after

successful purchase or lease, a the freedom it can give to throughout the year.

THE USE of small transport executives who cannot afford to purchasing company or executives. Association has aircraft for business and executives who cannot afford to purchasing company or executives. Association has aircraft for business and executives and wish to avoid the business jet could give a useful own 112 business aircraft, 42 rapidly throughout the Western services, and wish to avoid the business jet could give a useful own 112 business aircraft, 42 executives come increasingly to from airports to perhaps widely executives come increasingly to scattered factories or offices.

larly, the demand for both let aircraft.

In assessing the costs of ouy-cutting-out of the aircraft and and propeller-driven aircraft for In addition, throughout ing and flying a business air-tits expenses, however, is little use by executives is expanding. Western Europe, there are many craft, a company must include its expenses, however, is little and all the signs are that a pressure of company must include the more than a gesture, for company must include the signs are that a pressure of company must include the more than a gesture. and all the signs are that a hundreds of similar small air-depreciation; insurance for the more than a gesture, for comhealthy demand will prevail for strips or local airfields that are airframe and for passengers and panies have been known to sell

involves all types or nying out is used in previous Against these must be set the General Aviation Manufac-side the public-service transport aircraft, this operational flexi-side the public-service transport aircraft, this operational flexi-side the public-service transport aircraft, this operational flexi-side the public-service transport aircraft, this operational flexi-

The most extensive use of husiness aircraft is to be found 1,000 companies alone now of up to 25 per operate over 1,360 aircraft, of of the air taxl.

In assessing the costs of buy- to be cut. Occasionally the

has pointed out. The Associa-tion has estimated that on a direct comparison, the seat mile cost of a European scheduled airline and an air taxi, hired for a specific occasion or for a period lease, with a full load of in the U.S., where the leading passengers, can show a saving of up to 25 per cent in favour

Lynton McLain

Anglo-American Conference

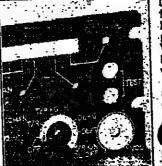
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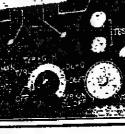
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New ring of confidence

FRANCE

past couple of years are behind Still in the military area the JET or Joint European Transit: the defeat of the Dassault prototype of the latest Dassault port, have been going on for The only company to show the consortium, will undoubtedly Mirage in the "Arms Deal of Mirage, the 2000, is flying while more than a year, but the propositive interest in the JET is make the new wing for the 310 the Century" against American in the helicopter sphere Aero ject still seems a long way from Air France it was suthorised to as well. If not, outline contracts

Oals

even point of sales, and a new go-ahead for the 200-seater 310 self as well as the McDonnell- tend to regard as the great developed. In the military received there seems much more sphere the Franco-German doubt about whether a Euro-design.

Alpha-Jet trainer is selling subspan competitor in the 138-160 In the second place the JET to capitalise on its technological stantially and an agreement has seat class of aircraft can be has always been designed given been signed with Lockheed justified commercially, with or around only one type of engine.

The question of British participation the Franco-German CFM-58. competition to supply fighter spatiale, the State-owned con-jelling.

version of the Airbus is to be version of the Airbus has been Douglas project for an Advanced post-war missed opportunity in

THERE IS beginning to be a under which the U.S. company without British participation the Franco-American CFM-56,

new ring of confidence about will sponsor the Alpha-Jet in the Essentially tripgrite discussions which is a civilian derivative of the French serospace industry, competition to find a replace-between the British, French and the General Electric engine the two sour episodes of the ment trainer for the U.S. Navy. Germans on such a project, the intended for the B-1 bomber.

lease 13 Boeing 737s to replace exist for other suppliers. discreption to supply nighter spatials, the State-whet the sales when the sales were the supplied of the sales when the sales are substantial findland and Belgium; and the world producer. With its three long guerrilla war to gain accepbasic versions of the Falcon, tance for Concorde in the U.S. Dassault has also made its a 136-seat capacity the proposed both parts of this scenario are in business jets.

Instead, the French now think presence felt in the market for smaller version of the JET would be in competition with are refusing to operate the 737 petitively in the U.S. The two when the interpretable is competitively in the U.S. The two would be in competition with the interpretable in the sale in Caravelles on condition that its Caravelles on co

Caravelle, which the French Aerospace - Dassault Breguet manufacturer Specimic which is complete aircraft and airframes.

developed. In the military received there seems much more Technology Medium Range the same way as the British

cipation in the 310 is not essenthere is British participation in

Instead, the French now think business jets.

In the delivery queue.

Instead, the French now think business jets.

In the U.S. The two men "up front" recent large European successes in the U.S. The Airbus is now recent large Furopean successes in the U.S.—that of the purchase of the Airbus have them is whether the aim of degoes up in size it bumps up the orders for the Airbus have them is whether the aim of degoes up in size it bumps up the french to claim that they craft around the Airbus consor. 77, the projected Boeing 757, the projected Boeing 757 the projected Boeing 757 the projected Boeing 757 the projected Boe

There is relatively little development in the French servospace sector which is not facturers. United finally opted shared with other European for the Boeing 767 rather than lines have recently been recountries. The Mirage 2000 is the Airbus, and it is clear that the only big unitateral venture, overy order gleaned from the partly because Dassault is, by tradition, a company intensely proud of its know-bow and northly ment of its its clear that opened to try to maintain the very order gleaned from the proud of its know-bow and northly ment of its health was military.

On the structural side the depends significantly on the new Mirage to depend to depends significantly on the new Mirage to depend to depends significantly of the new Mirage to depend to the new Mirage to develope the new Mirage to the its health was military.

On the structural side the developends of the new Mirage to developends significantly on

in sheer numbers sold, than the tions in Africa, is a British christened the 4000. The engine orders of which a half was for

partly because the company is civil aircraft field is that of has just flown for the first time new Mirage.

the sector) that the closer crucial to the maintenance of Dassault's Falcon series of busi —an example of a unitatoral. The success of the 2000, to co-ordination it felt was necessity. independent defence ness jets. The new tri-engined venture—but about 2 quarter of gether with the continuing sary could not come about

David Curry

Partnership the keynote

the development of a truly reached.

Pitfalls

out what Bonn sees as the Blonn, has already signed an better deal for its shareholders. longer term commercial pitfalls agreement on joint development. To that extent, time may be on for Britain of "going Boeing." of the new technologies that its side.

And in appealing to London to such an aircraft will require rejoin the Europeans, it has with McDonnell Douglas. Further evidence that, techneed to resolve a tussle going vinced by the manufacturers neally. Europe has much to on among its shareholders that the 310 opniest would be offer in such a partnership has at times set the two steeps. Britain's signing up now to help develop the smaller Joint European Transport narrow-bodied

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VFW-614, the exhilarating made the U.S. manufacturers in push the two companies into it, launch of the smaller A-310 version of the European Airbus, and not least, the resolution of the industry's future structure.

The very broad terms, the sector of the industry, acquired a more direct lever on the civil sector of the industry.

manufacturers is even more a reality made out of President side, there was indignation at relevant to the engine comcarter's promise of a "two-way the condescending terms offered panies, likewise deeply comstreet," and in making real by MBB, and continuing uncermilled to international co-progress towards joint develop- tainty about how the Dutch operative programmes.

West Germany's absolute faith in partnership among European countries is different warning And Control System the group might be preserved in one important respect from that of its principal associate, allies, A German consortium France, in that there is little headed by the privately-owned of the strident chauvinism still be preserved and the privately-owned directed mainly at the U.S. That is not to say that German officials do not ultimately regard decision on custs is finally about how the Dutch ment and procurement for interests should be financially nearly about how the Dutch ment and procurement for interests should be financially nearly and that of a version of the Airborne fronter integration achieved by the group might be preserved where possible.

Strengthen

Once again, VFW-Fokker may be able to strengthen its hand chills do not ultimately regard decision on custs is finally as the flow of work for the Airborne faith. is not to say that terman one craft as soon as a political as the flow of work for the Air-tile development of a truly reached.

The development of a truly reached.

aircraft which NATO will airliners and from subcontractrequire at the end of the next ing on the Tornado. Yet it seems require at the end of the next ing on the Tornado. Yet it seems decade, and they are keen to unlikely that the German-Dutch make this as much a trans- group, hailed at its creation as a summer on whether or not Atlantic as an inter-European pioneering multinational Britain rejoins the Airbus venture. The biggest of the merger, can maintain its croup. West Germany's voice West German aerospace com- independence indefinitely or do has been persistent in pointing panies, Messerschmitt-Boelkow- more than strike a slightly out what Bonn seen as the Blohm, has already signed an better deal for its shareholders. longer term commercial pitfalls agreement on ionit development. To that extent time may be an

that the 310 project would be offer in such a partnership has has, at times, set the two state a sales success, before it would come from the maltinational governments of Hamburg and commit funds. Had the 310 Spacelab consortium, in which Bavaria (which hold some 40 commit funds. Had the 310 not won an impressive array of launching orders in July, from arrines known for their independence from governmental interference (including Lufthansn), it is not certain that the German government would have lobbied London so hard. As it is, Bonn has quietly dissociated itself from the Airbus consortium manufacturers claim that ioining in the 310 serial manufacturers claim that ioining in the 310 serial accompanie or sortium, and of an enduring rationalisation is carried out— Surgramme appears, however, Herr Gruener and the Federal consortium manusacturers programme appears, however, Herr Gruener and the Federal claim that joining in the 310 programme appears, however, Herr Gruener and the Federal programme must also mean less than certain once the initial Government see it. As a first Britain's signific up now to help spacelab missions (which will step towards shaking out MBB's

> German-French Alpha Jet, now in full production and the European Airbus ringing up a steady flow of orders for the 310 and for the B-2 and B-4 types, the work prospects for the West German aerospace no longer smaller works and rationalis look as bleak as they did a year ation of a workforce that, at ago. There is even intermittent talk of the possibility of capacity the British or French industry being expanded if the Airbus yet still probably too big. programme picks up to the point where output might be raised to four aircraft a month; why not then have a second with the Alpha-Jet and a production line, and why not in

two German partners in Airbus Industrie (via the holding com-

w. Germany

W. Ger

In very broad terms, the even though the European the situation when he brought West German aerospace and the share of the world airliner marGovernment in Bonn agree that ket remains relatively modest. Fokker, in severe difficulties the following the state of the severe difficulties to th the future lies in strengthening Bonn is not against co-operation after it had been obliged to flow. Already, the West German to make sure that Europe successful VFW-814 short-haul man industry is involved in all is not merely used by the U.S. jet airliner programme. Serious the major European consortia grants as a subcontractor with merger discussions with MBE companies—Airbus Industrie, our design leadership or rest were made a condition of the Panavia group building the possibility of its own. That is Bonn's rescue operation. Yet Tornado Multi-role Combat Air-exactly what the Germans fear these have still come to nothing eraft. Euro-missile: and the might result from deals such as concrete. MBB suffered a heavy might result from deals such as concrete. MBB suffered a neavy newest international grouping Boeing's offer to Fritain, blow when its new chairman, which will develop a generation of advanced military helicopters for the mid-1980s. What is true for the West German airframe is keenly interested in seeing crash. On the VFW-Fokker is aven more

Luropean industry as a political Similarly. German manuscript the German VFW factories also they do. But they do not facturers are already involved also stand to gain from any want to pursue it except on in exploratory talks on designs further sales advances by the terms that make business sense. for the advanced tactical fighter Fokker-designed F-27 and F-28

step towards shaking out MBB's include European astronauts) capital structure, however, have been completed.

Boeing has sold its 12 per cent have been completed.

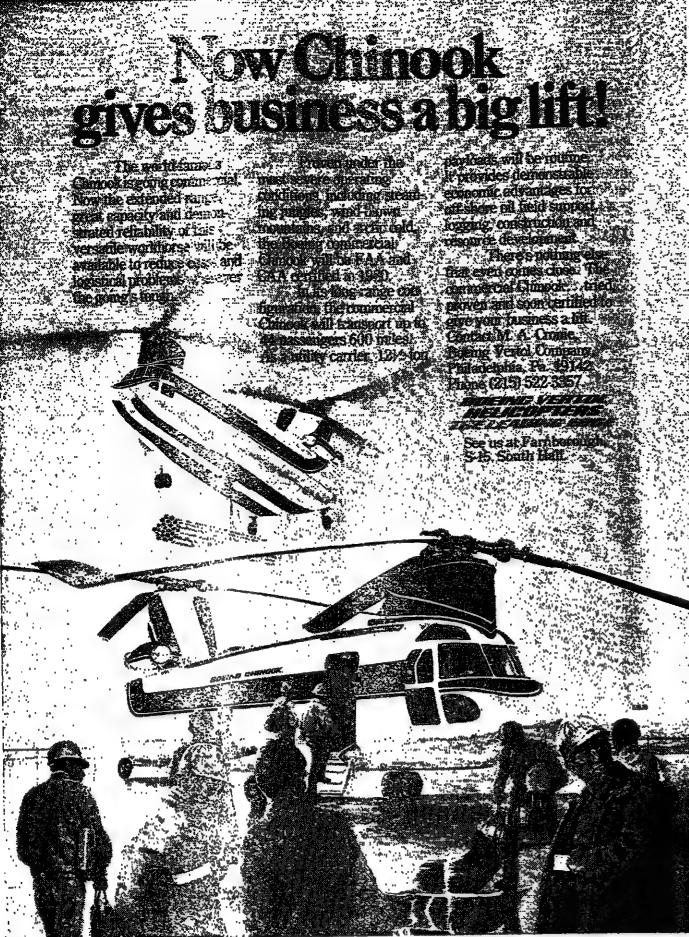
With the two main military programmes, the German giant, which in turn is hoping to sell it to an industrial consortium.

It remains to be seen whether a merged MBB-VFW group, perhaps also drawing in Fokker, would be able to bite the bullet of painful closures of around 50,000, is smaller than yet still probably too big. Dornier, the third company in the industry, is firmly resolved to keep its independence and number of profitable smaller MBB and VFW-Fokker, the programmes, it can probably

Adrian Dicks







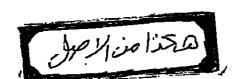


The A300 is in service worldwide, and proving to be far and away the most economical aircraft in its market.

Now the A300 is joined by the A310, the aircraft airlines have asked for A 200-seater with the same wide-body fuselage cross section tailored for the lower density medium haul routes. The A310 has a new wing optimized for this market.

Both the A300 and the A310 incorporate the technology of the 80's. The two models and their variants are the basis of a new family, enabling Airbus Industrie to maintain its leadership and airlines to operate profitably in the medium haul market.





The armoury hides its power

SOVIET UNION

try is not only one of the two

At the same time, the industry suports an airline the size Aerofiot (which last year 1971-75 five-year plan goal). while it also keeps an air force supplied with a vast array of lifferent aircraft ranging from mall helicopters to the most dvanced supersonic combat nachines such as MiG-25 Fox-

engineers,

Famous

are firmly discouraged, and only transport aircraft and heavy least the crash of the demon- and others are in use by various a few visiting dignitaries such long-range bombers and recon-

civil aircraft production, while Sergei Liyushin, and also a trans- service. and although it is military production plants port aircraft design bureau; operating on a limited number remain a closed book to the Kamov, specialising in helt- of domestic air routes, the aircopters of various types; MiG, craft is still rarely seen outside But for all this secrecy the founded by the late Colonel the Soviet Union even on de-West has been able to learn a General Artem I. Mikoyan, his monstration flights. Although great deal about Soviet aviation partner Mikhail L Gurerich, eventually it is intended that it that of the U.S. in size and scope, but also one of the most secretive. Virtually no details or statistics of its locations, its secretive. Virtually no details about its civil capabilities from the aircraft that have or statistics of its locations, its total labour force, its volume of output and its plans and prospects are published in the way the the aerospace industries of the West reveal themselves.

But its sheer size is indicated by the fact that Soviet civil and military aviation remains largely self-sufficient, with virtually no imports beyond a small quantity of high-technology specialist equipment and an occasional interest shown in the solution of the dicates that while the Soviet comparation of the comparatio

> nd Yak-42. eventually arise for a transport
>
> That the Soviet aerospace in comparable to the U.S. Boeing and and Yak-12.

dustry is not without its design problems has been proved by Broadly, the Soviet aerospace formance of the Tu-114 super- transport aircraft developments bat and the Sukhoi Su-19 Fencer industry is based on ten basic sonic airliner. Although begun as the Tupolev Tu-154 three-supersonic attack aircraft design bureaux," originally at about the same time as the engined medium-to-long range now being seen increasingly on the NATO / Warsaw Pact still run by, some of the most flying a little in advance of the developed Yakovlev Yak-42 borders in central Europe.

The Supersonic attack aircraft developed as the Tupolev Tu-154 three-engined model and the supersonic attack aircraft developed range of the same time as the Tupolev Tu-154 three-engined short-range transport sarriant developments as the Tupolev Tu-154 three-engined short-range transport sarriant developments. In alphabetical order, these 144 suffered a number of prob- port. facilities by Western journalists are: Antonov, specialising in lems during development, not are in service with Aeroflot.

as Heads of State or Ministers naisance types; Berley, involved stration aircraft at the Paris involved in aerospace affairs with amphibious aircraft; Air Show in 1973 which delayed have been allowed to see Soviet Hyushin, founded by the late its entry into regular airline

nology specialist equipment and aerospace mustry may from craft; Tupolev, both a transport design to the about an occasional interest shown in time to time adopt comparagive aircraft and a bomber specialist, 250 passengers over short-to-some specialist areas of tively simple solutions to some whose most famous product to medium ranges. Thus it is divergenced technological probate has been the TU-144 super approximately comparable in lems, the quality of research, sonic airliner, the so-called performance to the European design, development and pro- "Concordski" because of its twin-engined A-300 Airbus. This design, development are production remains exceptionally design similarities to the Anglo- is the biggest Soviet passenger bigh, and all those in the West French Concorde supersonic air- transport aircraft in production, who have had any kind of access liner; and Takovley, a versatile but while so far there are no liner; and Takovley, a versatile but while so far there are no of Aerofiot (which last year at all to Soviet aerospace—for design bureau which has pro-reports of anything larger in carried more than 100m passengers, and which in the five years from 1976 to 1980 is expected in recent joint U.S. fighters, basic trainers and helithat because of the vast distorance no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet Union, and to carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet Union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the Soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the soviet union, and the carry no less than 550m, a recent joint U.S. fighters, but more recently also tances in the soviet are supplied to the carry no less than 550m. in carry no less than boum, a under no delusions as to the three-engined short-range trans, the increasing volume of incompetence or quality of Soviet port aircraft, such as the Yak-40 ternal air travel, a need will port aircraft, such as the Yak-40 ternal air travel, a need will be remarked to the competence of the competence

> Considerable significance also the comparatively poor per- attaches to such other Soviet

Long-term promise of the Boeing deal

ITALY

ITALY HAS just fulfilled its wildest ambitions in the civil aviation field. After some seven finally reached this month same time the Italian Air Force, between the giant Seattle Boeting group and Aeritalia, Italy's accounting for about 70 per cent State zerospace company, which of Aeritalia's sales, is notorious struction of a new mediumrange passenger airliner.

In many respects, the deal, which will give Aeritalia a share ofg some 15 per cent, valued at about \$2bn in the new Boeing project, is expected to dictate in large measure the future shape of the Italian aerospace industry. In the next five years the weight of civil aerospace is now likely to increase substantially in Italy, gradually eroding the dominance so far of military production.

Merger

For the past decade or so, since the creation of Aeritalia through the merger of the nonengine aerospace activities of the private Fiat group and the aerospace sector of the IRI-Finmeccanica State holding in 1969, to give Italy a national areospace industry capable of participating in international oint ventures, the emphasis tary aircraft currently account for as much as three quarters L740bn (about £450m), representing a 4.2 per cent increase

aerospace industry, have been Aeritalia will be responsible for In the space sector, Aeritalia chronically lacked, serious obstacles to growth. most of the moving parts of the currently participates in a

some \$4.4bn—or the equivalent evenly distributed by the mid-sector designed the module's of 2.6 per cent of Gross 1980s between military and structure as well as the thermal Domestic Product—the great civil production. part of which was eaten up in years of discussions and stop-go wages, salaries, and current exnegotiations, agreement was penditure of all kinds. At the

> forced the industry to look else- flaps and leading edge slats, ness and general profitability.
>
> where, to export markets. But wing-tips, elevators, the vertical A field in which these limited overseas sales. Last new aircraft.

General Electric T64 engines, group in the Panavia pro-working on its new MB-339 but a U.S. embargo has blocked gramme for the construction of trainer-fighter to replace its a sale valued at an estimated a multi-role, variable-geometry successful MB-326, while \$400m of some 20 G-232 aircraft supersonic aircraft, the Tornado Piaggio has updated its standard to Libya. The Italian industry MRCA. Aeritalia will manufac- P-166 light transport aircraft. has long suspected that U.S. ture the wings of the 809 air- None the less, the focal point has focused essentially on mili-since the G-222 is a rival of be delivered to the Italian Air the overall long-term develop-tary production. Indeed milisorts to the larger Lockheed Force. Hercules transport aircraftover, which last year totalled ously controversial sale to the Approval itself the subject of a notori-

Aeritalia, however, is now L1,265bn

until recently the lack of Gov- tail rubber and the radome, relatively smaller concerns ernment export support and the Moreover, Aeritalia personnel continue to do well, especially reliance on predominantly U.S. will take part in the overall in export markets, is that of engine licences has severely engineering programme of the helicopters. One of the most

cent in real terms over the stay. The Italian company in helicopters like the Augusta 109, Aeritalia's G-222 military particularly to its participation rather than military use. Other transport aircraft is a case in with British Aerospace and he active concerns are Aermacchi point. It is currently fitted with West German Messerschmidt and Piaggio. Aermacchi is now embargoes are not wholly moti- craft to be built for the Air of the Italian agrespace industry vated by security reasons, but Forces of the three countries, remains Aeritalia. also by more mundane commer- and it will assemble directly instrument with which the cial considerations, especially and test fly the 100 aircraft to authorities intend to ensure

senting a 4.2 per cent increases hoping to get round the embargo modernisation programme for aviation field and to the in real terms over the previous hoping to get round the embargo modernisation programme for aviation field and to the in real terms over the previous hoping to get round the embargo modernisation programme for aviation field and to the by fitting the heavier Rolls- the Air Force has given the Tornado MRCA programme on year. ear.

This overdependence on mili- Royce Tyne engine on the G-222 Italian industry some breathing the military side to build up a tary sales has proved a severe by next year. Negotiations with space, especially since in the substantial presence in handicap to the development of Rolls-Royce are understood to Tornado programme some 100 international market. handicap to the development of the first of reported by Aeritalia last year prising that the national zero with the G-222 military trans- and nuclar engineering, for a and the group's constantly ris- space industry in Italy has port aircraft, Aeritalia also country like Italy is certainly and the group's constantly as sought for some time to achieve produces, among others, the there. The hig question is ing indebtedness. The absence sought for some time to achieve produces, among others, the there. The hig question is of an adequate Government a better balance of its produce G91Y twin-engine single-seater whether this awareness can be are aerospace policy, and in partive activities by reducing the tactical fighter-bomber and the put into practice and if the ticular the absence of the sort weight of the military sector on F104S fighter equipped with an aeropsace industry will it long of financial backing required for overall turnover. With the integrated air-to-sir Sparrow last be given the adequate the development of a national Bosing programme, in which missile weapon system.

Support which it has so far

The low level of defence new 767's wings as well as the number of international space

spending has exacerbated the delicate radome or nose cone, projects. Among them is the industry's problems even and with the continuing con-Spacelab programme. Aeritalia further. Defence expenditure in struction of McDonnell Douglas operates within the framework Italy last year, according to the DC-9 and DC-10 body panels and of a consortium headed by the International Institute for tail units, Aeritalia eventually German ERNO-VFW Fokker Strategic Studies, amounted to hopes to see its activities more group and its space engineering

Sig. Giuseppe Petrilli, the But Aeritalia, which employs chairman of the giant IRI State more than 10,000 of the 32,000 chairman of the giant IRI State more than 10,000 of the 32,000 holding company, said the people working in the Italian Boeing deal, which will directly aerospace industry, is only one generate some 1,000 new jobs aspect of the country's aero-in the depressed South of Italy, space sector. At the other end would neable Aeritalia to build of the scale there are a host of State aerospace company, which of Aeritalia's sales, is notorious would neable Aeritalia to build of the scale there are a not will see Aeritalia participate on for deferring payments which, up a significant presence in the smaller concerns both in the arisk-sharing basis in Boeing's are result of the disastrous medium term in the civil aviapublic and private sectors, reprogramme for the conburgatory, can take up to 24 tion market. Under the terms Unlike Aeritalia, however, they months to settle, forcing the of the agreement with Boeing, tend to specialise in a specific aerospace industry further into Aeritalia will manufacture the range of products and have the wing control surfaces of the characteristics of Italian The absence of a comprehen- new medium range passenger medium-sibe enterprise in their sive defence programme has aircraft, the wing trailing edge flexibility, market aggressive-

active companies in this sector year, exports totalled L330bn Meanwhile military product is the Agusta group which has and represented a drop of 7 per tion remains Aeritalia's main- won sizeable orders both for the shorter term is pointing designed specifically for civilian

> ment of the Italian aerospace sector on an international level. The State aerospace group, for its part, is now looking towards Parliamentary approval of the the recent collaboration agree-(about £850m) ment iwth Boeing in the civil

Paul Betts

Long debate over a new fighter

anxious about the prospects of industrial complex meeting a Electric engine, the men at IAI

It was politics which created Government has begun to speak hopes for major export orders for Vienna's attention, but say ment development authority, led the aerospace industry in in terms of an aerospace in-from South America. Ecuador privately that Austria's to charges by the Americans Israel and war which gave it dustry and the Export Institute placed an order for 24 aircraft,

export orders for the Mach 2.3 wide range of domestic needs refined and adapted the hybrid Reluctant Kir combat fighter. After the as well as capturing a growing until they today argue that the Americans vetoed sales to export market.

Kir is essentially a new Austria has possessed.

Viggen, the main competitor the Defence Ministry's armsprivately that Austria's to charges by the Americans that if was a copy of the Side. Chancellor Bruno Kreisky is re- winder missile which subse-

the front rank of the small actively engaged in promoting hension about its effect on the bluntly states that "a small producers.

Aviation and aerospace products abroad.

Aviation and aerospace products abroad.

Aviation and aerospace products abroad.

Pride of place goes to the America, wstoed the sale. Other bow. All the research and debasically means one company, largest proven in the bluntly states that "a small producers.

Aviation and aerospace products abroad.

Pride of place goes to the America, wstoed the sale. Other bow. All the research and develop which employs 20,000 people 1973 Middle East war and is expected to play an important gave clearance for the sale of Because of fears that the craft, missiles, radar, communications equipment and a host into the 1980s.

It was President De Gaulle's Taiwan, an order Aryen would not get the green believed worth \$500m, but the light, and because of the lack of interrelated and peripheral times.

It was President De Gaulle's Taiwanese appear to have been of Kfir exports, IAI tried to get intimidated by all the publicity a share in producing the U.S.

The industry is equally the country's largest melitary Mirage body with a General Dynamics opposed any producanxious about the prospects of industrial complex meeting a Electric engine, the men at IAI

The industry is equally the country have been combat arraft. Combining a deal with materfalise, but is not in Engage.

The industry is equally the country are company.

The industry is equally the country is largest melitary Mirage body with a General Dynamics opposed any producanxious about the prospects of industrial complex meeting a Electric engine, the men at IAI

Dynamics opposed any produc-tion deal because it fears IAI would apply the technology to go into competition. Americans vetoed sales to export market. Kfir is essentially a new Anstria has postponed its. The success abroad of other South America, hopes hinged on The success of IAI has fed creation.

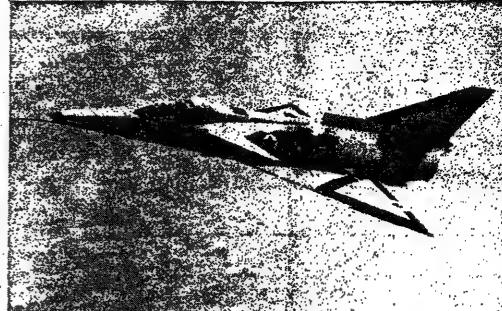
Austria and Taiwan, which dozens of smaller plants, some However, it was that showed serious interest but are of which have moved from sub-American powerpack thrusting its price was considerably this fear. The Shafrigr air-to-dragging their heels because of contracting to independent pro-the jet to supersonic speeds the political implications.

Let was relitive which created covernment has begun to steak hones for main competitor ment development authority and viggen. The main competitor ment development authority and viggen. Anstria has postponed its The success arruse of con-decision on an order for 24 Israeli products which incor-decision on an order for 24 porated U.S. technology created

luctant to give such a hand quently competed for the same some order to a country of markets. The Defence Ministry whose foreign policies he is so has denied this charge, but

glous. It is thus likely to be door." Unconfirmed reports one of the mainstays of Soviet bare suggested that, by early years to come, and can be exceed to be developed into many different versions.

On the military aide, very timing at a rate of about 30 little detailed information is aircraft a year, with an eventual versions production but it is believed to amount to about 1,800 aircraft amount to about 1,800 aircraft and 400 aircraft believed to amount to about 1,800 aircraft is not less of maken are of all types. Certain basic types of combasic types of combas



prints of a proven type like the two other arcraft, the Westwind a steady if unspectacular growth now underway to find exports, it still a Mirage, and quite another to do executive list and the Arcva until 1970. Being outstripped markets for military products, who doubt that it will be closer it all unaided.

STOL transport.

Mr. Zvi Alon, long-time head The Westwind was developed facturing division, Bedek civilian market.

of procurement and production from the Jet Commander purreceived a major boost in the at the Defence Ministry, chased lock, stock and barrel early 1970s when it started re
Export Institute's aerospace and civilian exports, it still a division as the head of who doubt that it will be closer if further wars in the region can be avoided.

David Lennon

SOVIET CONTINUED FROM PREVIOUS PAGE

Airlines in the Eastern bloc. currently being given, however, minustrine faves. It is imaged, the single policies he is so the support that the single policies he is so the support to have been allayed, the minustry of Soviet civil and production, and is still in production, and is still in production, and is still in production and simple, the single protocol processing the second of the control of the support of the single protocol of the control of the support of the single protocol of the support o

such as the Mig-25 Foxbat, are bute to the potential dangers known to be in quantity propresented by Backfire, which in duction, with a variety of vertieir view could become an sions already known to the even greater menace to allied West, including the latest shipping in time of war than Foxbat-D. More attention is the large and growing Soviet thinking in the various design bureaux, and it would surprise mo-one in the West to find radical new designs emerging in the 1980s. M.D. Wright at the beginning.

In this, the 75th anniversary year of powered flight, Shorts salute the Wright brothers—pioneers extraordinary and fathers of the world's aerospace industry.

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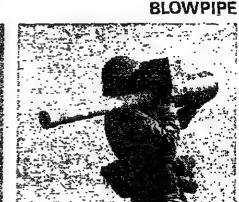
For Shorts it was the beginning of a tradition of innovation and co-operation that produced many notable aviation

firsts and placed them among the early leaders of the industry.

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company's collaboration in a range of international aircraft projects, involving pods for Rolls-Royce RB.211 engines on the Lockheed TriStar and Boeing 747; the design and manufacture of wings for the Fokker F28 Fellowship; the manufacture of the main landinggear doors for all 747's and the production of a variety of flight and structural components for the TriStar.

Shorts are proud to be part of today's international aerospace industry. And we acknowledge our debt to the Wright brothers, who started it all three-quarters of a century ago.













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overnment decision awaited

SWEDEN

but with the final decision to Liberals contain go ahead with development principally in their being constantly postponed.
Without this order Saab-Scania cannot fully employ its design team and will almost inevitably have to abandon its capacity to Evens develop and produce its own Evens

eircraft. mission is due to report this autumn. Saab-Scania has been adlocated funds in the 1978-79 budget to continue design work on the B3LA, but shortly after the commission has reported the three non-Socialist parties in the ruling coalition will have to decide whether or not to ask Parliament to commit funds for ull-scale development.

The political background is complicated and contentious.

the FUTURE of the Swedish project, as is the small Com
In the post-1973 economic schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry's dilemma of how The company has developed a schedule coincides with that for the industry is dilemma of how The company has developed a schedule coincides with that for the industry is dilemma of how The company has developed a schedule coincides with that for the industry is dilemma of how The company has developed a schedule coincides with that for the industry is dilemma of how The company has developed a schedule coincides with the coincides wi order from the Government to Government the moderates with other industrialised counseless for a new light (Conservatives), who hold the tries dependent on large energy stimulated partly by a request series only for the domestic designated the B3LA. This has Eric Krönmark, have been that the country can no loncer understood to be interested to attack aircraft, currently defence portfolio through Mr. imports, it has become evident from Brazil, but the Italians are series only for the domestic aircraft side. Sub-contracts designated the B3LA. This has Eric Krönmark, have been that the country can no longer understood to be interested in present contending for orders have been obtained for delivery been the situation for the past energetically; supporting the afford to develop and produce producing a rather more two years during which inject industry. Both the Canten and produce producing a rather more from Austria. India and of components for McDonnell tions of Government cash have Party of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over Thanking Party of Prime Minister its own, unless it can procure demanded by the Brazilians Australia, Recently the Carter Douglas' new super 80 airliner, kept the project ticking over Thanking Party of Prime Minister its own, unless it can procure demanded by the Brazilians Australia. kept the project ticking over Thorbjörn Fälldin and the substantial foreign orders for They could also supply an Administration hinted that it while the British Government's but with the final decision to Thorbjörn Fälldin and the substantial foreign orders for They could also supply an Administration hinted that it while the British Government's but with the final decision to Thorbjörn Fälldin and the substantial foreign orders for They could also supply an Administration hinted that it while the British Government's but with the final decision to Thorbjörn Fälldin and the substantial foreign orders for They could also supply an Administration hinted that it while the British Government's but with the final decision to Thorbjörn Fälldin and the substantial foreign orders for They could also supply an Administration hinted that it while the British Government's but with the 146 principally in their youth movements, which would prefer to shandon the Bal.A.

as indicating scepticism about advanced technological field.

the Swedes have been facing up foreign manufacturers. to a situation which implies a

recent opinion polls is well turing key weapons domestic AerMacchi have been working sideration by the current com- military aircraft production placed to return to power in ally. On the aircraft side the on a design known as the AMX mission on the aircraft industry, have been widely ventilated in the general election of Septem result was Saab-Scania's Draken which is similar to the B3LA. The Viggen's failure so far public debate within Sweden

factions, the weapons.

more sophisticated weapons Swedes in arms procurement. In July Mr. Kronmark put system. The industry has been Mr. Kronmark's Italian hade to deliveries to India. Cabinet appointed a commist the betting on a decision arguing that for this very soundings have not been welsion to examine the alternatives favourable to Saab-Scania at reason it has much greater comed wholeheartedly by the to the new aircraft and the evens. He underlined that the export potential particularly in BSLA's opponents in Sweden Replace

Mr. Krönmark has stressed the new interceptor to replace the significant budget savings. importance rather for Sweden Viggen in the Swedish air force

which according to the most pinned by a policy of manufac craft project. Aeritalia and is one of the factors under con- moving into "alternatives" to

Saab-Scania notched up its Swedish aircraft. The project the Swedish aircraft is powered to the biggest foreign orders with the has been at least mooted to the by a modified Pratt and SKr 600m (\$133m) for Saab-saab 105 trainer and light Swiss, who are still looking for attack aircraft. The subsonic replacements for their Hawker BULA has been designed as a Hunters and who have in the porates other U.S. companies the proceed with the 146 short-haul feeder jet could be swedish aircraft is powered to the SWr 600m (\$133m) for Saab-saab 105 trainer and light Swiss, who are still looking for Whimey engine and incor-scania if financing arrangements been designed as a Hunters and who have in the porates other U.S. companies the proceed with the 146 short-haul feeder jet could be swedish aircraft is powered to the Swedi B3LA has been designed as a Hunters and who have in the porates other U.S. components, ments can be settled. replacement to the 105 with a past co-operated with the

economic consequences of a Centre Party had still not made the developing countries and The political consequences of decision not to place the order up its mind despite remarks by those outside the major power co-operating in weapons manu. The BSLA decision is funda-sidiary, Flygmotor, is working with Saab-Scania. The com- Mr. Falldin at the party confer- blocs which cannot afford to facture with a NATO country mental to the future of the on its combustion chambers. ence which could be interpreted invest in sophisticated aircraft, would, it is argued, undermine whole Swedish aerospace busi-However, even such an ardent Swedish neutrality. On the ness. Domestic missile developthe B3LA. The aggravation of supporter of the B3LA project other hand it is obvious that if ment is hanging fire until the in the satellite itself and the the unemployment threat in an as Mr. Krönmark has acknow the preliminary discussions issue has been clarified. Sabeconomy which is already facledged that it would probably with the Italians could be Scania hopes to replace the 05
building, steel, textiles and craft to be built. The Swedish airother industries has been aircraft industry cannot expect siderably enhanced and the a new range for the B3LA
squared as an argument for to continue in its present size sharing of development and Work on the 372 air-to-air
placing the B3LA order. but and it is fairly evident that any component costs could entail missile, which Saah-Scania has placing the B3LA order, but and it is fairly evident that any component costs could entail missile, which Saab-Scania has

> The B3LA has, however, of maintaining a foothold in an in the 1990s will have to be been designed not primarily as ticking over. dvanced technological field. purchased abroad or at best an export product but as one. In the meantime Saab-Scania or not that decision is favour-In fact for the past two years developed in co-operation with element in a hi-lo defence mix and Bofors have formed a joint able, it will have to shrink in Mr. Krönmark has already side Saab-Scania's more power- Corporation, which will be increasingly obvious that its radical change in their whole been marking out a fall-back ful, more sophisticated Viggen responsible for future Swedish viability depends on greater defence philosophy. Since the position on these lines which series. The Viggen will safe missile development. Bofors is co-operation than before with last war Swedish neutrality has would preserve as much as guard employment in Saab currently delivering to the foreign aircraft builders—and been complemented by a possible of Saab-Scania's design Scania's aircraft production Swedish army a close-range that raises political issues which defence based on conscription and development capacity division until well into the laser-guided air defence missile the Swedes have only just and with sufficient weapons should the B3LA decision go 1980s. The interceptor version which is claimed to be "the best begun to face up to. potential to deter a possible against the industry. Discus- has only just started to come in the world within five kilo-The credibility of sions have started with the into service with the air force, metres in daylight." A night both the defence posture and Italians about the possibility of and finance for a new attack version is under development.

Social-Democrat opposition, the neutrality has been under- a joint venture light attack air- version, now known as the A-20,

from Austria, India and of components for McDonnell engine for a joint Italian would "react negatively" to the decision to proceed with the 146 Washington can effectively veto Sweden has a footbold in its export. The Swedish Govern-space technology by reason of

The B3LA decision is fundabeen displaying at international exhibitions, is no more than

for the Swedish air force along- company, Saab-Bofors Missile gize,

ment is contesting the U.S. atti- its membership of the European Space Agency. Through the State-owned Rymdbolaget Snah-Scania is involved in computer parts for the Ariane rocket, while Volvo's aero-engine subon its combustion chambers. order for components to be used

So the Swedish acrospace industry goes on living in a state of uncertainty pending a decision on the B3LA. Whether

> William Dullforce Nordic Correspondent

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More State money needed

better things to come. The onstruction of the VFW-614 the end of the year. et. Britain has opted to build HS-146 feeder airliner, which will be direct competition for Fokker's F-28,

The good news is that Fokker xpects to make a small profit in what is probably its last year of joint operation with VFW, and demand for the European retain its position as one of Airbus is finally picking up. A Dutchman Stands a good chance of being the first European while a large body of opinion wants a stronger

decision to link up with the and concern for jobs meant Fokker could not switch work to under-used plant in another

The failure of the VFW-614-

now seems certain to lead to consortium has opted for a new Dutch airframe manufacturer, the creation of a unified fuel-saving wing designed by Fokker, has now accepted the German aircraft industry com- Fokker in Germany. its ten-year-old prising VFW and Messerschmitt-

Worried

Fokker is worried it will be left out in the cold and is insisting on at least a blocking share in the new group. It is determined that Holland should only six Western countries with a self-supporting aircraft industry. Fokker now hopes that after the initial MBB-VFW linkmore talks will be held aimed at Fokker rejoining the

new group as a full partner. bus. Fokker has been a staunch claims supporter of a strong European super F-28 and the Governaircraft industry. It sees failure VFW group proved an unhappy to the European companies be one. Close Government involve coming merely sub-contractors be found.

ment in the aircraft industry to the blg U.S. manufacturers. In view of the check It was therefore doubly disappointed by the British decifrom factories in one country slon to build the HS-146. Before stepping down in June in the looking for closer links with wake of the breakdown of the France. The French are appar-Fokker-VFW link, executive ently willing to take a risk-chairman Mr. Gerrit Klapwijk bearing share in the developwas scathing of the HS-146's

> represents a challenge to the new aircraft. -28: it signifies a continuation of the belief in purely national aircraft industries n Europe. Fokker has sold 132 F-38s to 35 operators and orders are often only for one or two aircraft. Maintaining a spares network for such small numbers is expensive enough without another new aircraft to fragment the market even further, Fokker

After the company's worstever financial result in 1977 prospects are for a return to a small profit in the current year. The Duesseldorf-based central holding company made a loss of British Nimrod. DM157.6m (\$79m) in 1977. It drew on all its free reserves of downward trend from a profit of DM18.2m (\$9m) in 1969 but France and Air Inter. moving into such a heavy deficit Fokker's British-born market-

couraging developments for netitor is British Aerospace's takker. The company has a BAC One-Eleven. 6.9 per cent stake in the project, producing moving parts for the throughs have already been Airbus wing in Holland and achieved in recent months, parts of the fuselage in Fokker sold its first F-28s in Germany.

ereinigte Flugtechnische now being held are expected to but if British Aerospace opts Werke (VFW) group and halted lead to an outline agreement by for the Airbus then the construction work would go to Britain, which already builds wings for the B-2 and B-4 Airbus versions. The UK firm might also decide it wants to design a new wing, This would appear to

Fokker in the position of picking up only what the major partners do not want. But if Fokker were to get the wing contract this would involve considerably more investment on the part of the Dutch Government than has gone into for funds to develop a ment's plans to cut public to co-operate in Europe leading spending it is questionable whether the extra funds could

porary, it is hoped-to Fokker's co-operation with the German aircraft industry. Holland is now ment of the super F-28 and even have a motor, the CFM-56, which The new aircraft not only could be modified to go into the

Interesting

On the sales side, France offers interesting prospects for Fokker. It has said it will order 12 F-37s for use as trainers by the French Navy if Holland decides on the Breguet Atlantique as a replacement for its fleet of marine reconnaissance Neptunes. The Dutch Cahinet has not yet decided whether to opt for the Atlantime or for the American Orion. although it has eliminated the

The French have also hinted they are interested in a mari-DM150m to cover most of this time version of the F-27 and loss. Fokker's net result has also in the F-38 as a possible shown a pratically unbroken replacement for the ageing Caravelles now flown by Air

has weakened Fokker's nego ing director Mr. Alan Buley tiating position in talks with hopes to sell 30 aircraft this MBB and the German Govern- year. Talks are continuing with Japan's domestic airways on the Increased demand for the sale of an undisclosed number previously slow-seiling Airbus of short-hand airliners. Fokker and the breakthrough in the is offering a stretched version U.S. with the sale of 28 aircraft of the Mark 6000 F-28 which to Eastern Airlines are en-would seat 100. Its main com-

> Two significant sales break in Fokker sold its first F-28s in Britain with the announcement

have been sold compared with The development of a new in May that Air-Anglia, which Signaalapparaten — a Philips a break-even total of 250— version of the Airbus jet, the already files F-27s, had bought subsidiary—and Fokker. The put strains on the partnership. A-310, would also bring more two of the jets. Fokker also Netherlands Aerospace Instit was claimed that the work to Fokker's plant Sales of recently sold four aircraft to two tried in a nevertheless Amsterdam-based sales organisa- the new aircraft have been very KLM. This is the first time for worried that not enough is the property and orders have not been passed and a point aircraft have been very KLM. This is the first time for worried that not enough is subsidiary.

Holland could be the first European country to put a man a spacelab mission. Dr. Ockels'

The strength of the country's tries form a sound basis for space activities, while the spin-doubtful. off from space technology is seen as a useful stimulus for companies such as Hollandse

THE PAST YEAR has produced a into the Fokker 27 and 28. European airlines. Until Britain national airline, which normally laboratory and the Ariane for the Dutch aircraft industry decision to take a more active aircraft Fokker's position will will go into service with NLM their peak. Lack of agreement interest in the fortunes of VFW remain unclear. The European City Hopper, KLM's domestic within the European Space. Agency (ESA) decisions on new work,

If Holland were to put the into space following the short- same proportion of its Gross merger with the West German Boelkow-Blohm (MBB). Talks tively chosen to build the wing listing of the 31-year-old nuclear National Product into ESA prophysicist Dr Wubbo Ockels for grammes as other countries it would have a stronger voice in personal triumph is perhaps not decisions. This would require. surprising considering Rolland's however, a doubling in spendstrong involvement in research ing, says NIVR, on which Government, industry, users and research institutes are represented. Whether Holland's cost lectronics and aircraft indus-conscious Government would agree to raise spending now is

> Charles Batchelor Amsterdam Correspondent

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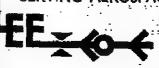
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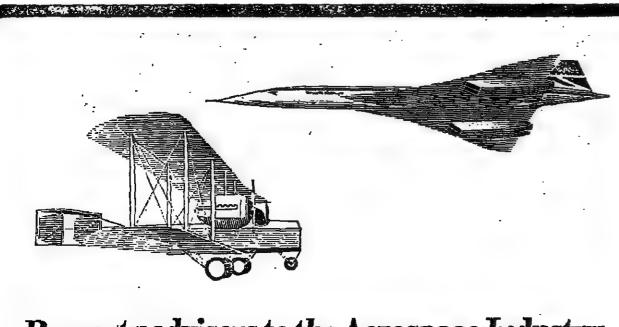
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The dollar: no time for despair

THE MARKET'S despairing beginning of its salvation. incidentally financing reaction to the latest batch of This view may seem very ports from their home to roost. In the moral tone which market men love to adopt, dealers talk of the effects of years of improvidence working through now that foreign central banks are no longer willing to finance folly without limit. However, the external value of the dollar is not a moral issue; and a different, possibly homoral analysis points to a very different conclusion.

by the Fed through gross peracquiring reserves for their missiveness and an obsession own sake.

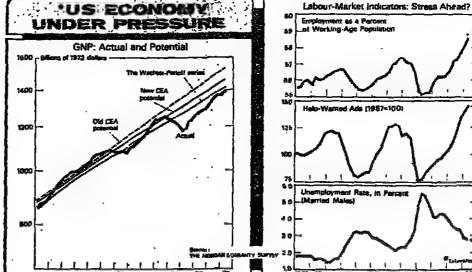
There is no need to believe that the Germans and Japanese were consciously engaged in domestic credit expansion gives covert reflation, that the British had turned mercantilist, or even wrong, and that the Fed, which that the Americans were has hardly even heard of this consciously trying to drive down measure, misses the point by the value of the dollar, basing its policy entirely on the growth of the U.S. money spens freedom of choice in their ferent conclusion.

The simple fact that halauce supply.

apparently cosmetic or even odd to those who argue, as does employed economies. Intervenmerely irrelevant U.S. "defence the stern Bank Credit Analyst tion, after all, can be seen as measures" on behalf of the in Montreal, supported by the a way of financing extra demand dollar, coupled with figures former U.S. Treasury Secretary, without actually going into showing a still widening trade Mr. William Simon, from his debt. In addition, Britain is gap, suggests that chickens and holiday home, that the dollar's not the only country which has perhaps vultures are flocking undoing has all been contrived been glad of the opportunity of home to roost. In the moral by the Fed through gross per-acquiring reserves for their

growth of the U.S. money central banks have after all had some freedom of choice in their The simple fact that halance supply.

However, measuring an effect it makes some sense to regard first that a large flight from is described by the same as intervention as one of the



eliminated, show sharply rising deceptive. pressure, which is being The weakness of the dollar reflected in wages. Some goods has no doubt provoked not only scarce and rising sharply in but also hedge buying. Con-

f rapid growth, is nearing the Sceptics in the market may limits of capacity. The Council wonder whether the dollar can of Feonomic Advisers has been possibly stabilise, let alone trimming its own estimates of recover, purely in response to what is possible, and outside private capital flows. Experiacademic measures of productive ence with sterling should give tive potential are still lower, them some reason to suppose Labour market indicators, once that it can; but in any case the women and teenagers are trade account may well be

- notably in construction-are leads and lags in settlements, price. In short, ordinary stant talk of oil import quotas demand management suggests is likely to have inspired some that it is time to cool off a bit. Stockplling. Trade in manufacturers—the real heart of the bayes a position that it is time to cool off a bit. Stockplling. Trade in manufacturers—the real heart of the bayes are positioned the U.S. of the bayes are positioned to the ba have so assisted the U.S. expan-respond to exchange rate movesion in recent years, may now ments through import substituhelp to impose a measure of tion (Volkswagen Rabbits from deflation while sparing the Pittshurgh, for example) and President and his advisers any export apportunities. If net awkward political decisions. The foreign demand rises, deflating

sheet minds balance eventuals as first that a larger flight from a first from a first

Letters to the Editor

Schedule D

Taxpayers

From Mr. G. Scotton

Sir.—In bis letter (August 29)

Mr. J. Andrews criticised the article (August 24) which concerned the possibility of a concerned the possibility of a source in detail and emphasised that many other sources would be reached. He stated that it was "simply not true that many self-simployed pay fax up to 18 months in arrears," and supported simployed pay fax up to 18 months in arrears," and supported six advised the Secretary of State Radiological Protection Board's conce the relation and up-to-date that Mational mer suppliers, but rather to advise in an up-to-date that "clevated" section of the that I fit be local Radiological Protection Board's conce their roles in an up-to-date that "clevated" section of the that I fit in the local Radiological Protection Board's conce their roles in an up-to-date that many to forth Unit at Harwell. This fact, neatly perspective. This must be to the "clevated" section of the that I fit be local Radiological Protection Board's conce their roles in an up-to-date that meny to forth underlines both the importance of cessors and end-users—assistance current repairs, will soon equal be underlines both the importance of cessors and end-users—assistance current repairs, will soon equal be development of special grades.

Clearly the polymer supplier will aim at encouraging a greater use of his materials and extend their potential by innovation.

Since I he fit was described to the use of cessors and end-users—assistance current repairs, will soon equal be underlines both the importance of cessors and end-users—assistance current repairs, will soon equal be development of special grades.

Clearly the polymer supplier will aim at encouraging a greater use of his materials and extend their potential by innovation.

Exporting

From the Director General, The National Chamber of Trade callons innovation.

The National Chamber of Trade (callons innovation.)

The National Chamber of Trade (callons innovation.)

Could we begin rether to the "clove to th

purposes.
For example tax, in two instal-

ments, on profits of a business with a financial year-end on April 30, 1981, would not become payable until January 1 and July 1, 1983, approximately 24 From Mr. J. P. Pickering. months in arrears.

I know, from practical experi-

Sir,-In your article (August 18) on Shell's problems with the (August 24). Shell are by no means blameless for their means blameless for their and vegetables, are the important structure for polymers. One wonders what he has in manufacturing industry.

Mr. Rosen's remedy of paying side, there may be further scope to increase inflation overall. No one, not even the farmers themever, far more culpable in my selves, would really profit by such riew is the performance of the a policy. I think that Mr. Rosen's remedy difficult. In the Health and Safety Executive in like many other farmers, should the Mossmorran issue, and this cought to be of national concern. Their written evidence to the 1977 Public Inquiry totalled 64 J. P. Pickering.

Dages, of which only 41 pages Orchard Place, Hexham, Their written evidence to the public to serve the farmers. 1977 Public Inquiry totalled 5i J. P. Pickering. pages, of which only 11 pages Orchard Place. Hexham, related to the applications. related to the applications in Northumberland, question, in one page on the proposed ethylene cracker, the HSE inspector concluded that there ought to be no unacceptable risk, although he said he had no applications applications development efforts, exerted a great deal of influence on the data and that if the NGL plant were designed and coperated to currently acceptable safety standards (a ubiquitious this expression), "there will be not intolerable situation" imposed on local communities. He said that the safety and that the safety standards (a ubiquitious this expression), "there will be not intolerable situation" imposed on local communities. The said that the safety standards (a ubiquitious this expression), "there will be not intolerable situation" imposed on local communities. The said that the safety standards that the safety standards (a ubiquitious this expression), "there will be not intolerable situation" imposed that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquitious this expression) are said that the safety standards (a ubiquiti details of the size or type of plant. He rather curiously added that there would be a residual imposed un local communities. Addermation, which is not the cations—most of them very idents within 1km of a was taken at the Admic Energy of the material-producing the case for instant decision by tion is the keynote, for the surface and an advertishment at Mossmorran was questionable, winfrith—though you do not the material-producing the case for instant decision by tion is the keynote, for the material-producing the case for instant decision by tion is the keynote, for the surface and increase in the toll charge find a partner in two weeks' tell your readers this.

One of this was used in industrial appli- Fine Tubes Ltd.

Sin.—"Lombard" (August 24) visits to Japan are inadequate, argue 1 they are not when new innovations the case for instant decision by tion is the keynote, for the severn Bridge. The meets of this were arrived argue that much of Wastever the meets of the were argued for the Severn Bridge.

Land prices

Sir, - In my experience, the ence, that many self-employed do going tough are those who missed in fact have a financial year-end the bus of low land prices of on April 30, and therefore enios on April 30, and therefore enjoy only a few years ago. These GUI y 121-13 on April 30, and therefore enjoy only a few years ago. These GUI y 121-13 on April 30, and therefore enjoy only a few years ago. These GUI y 121-13 on April 30, and therefore enjoy only a few years ago. These GUI Trom Mr. G. Christopher Koras a considerable cash flow advantage people, many of them to the GUI Trom Caudie's letter

From Mr. J. R Sutcliffe.

Sir.—In your article (August 18) on Shell's problems with the Brent field, you named no what the Brent field, you named no willains, and Mr. Mehta has cast wheat, harley, maize, sugar, facilities are in the hands of a Worcester Park, Surre (August 24). Shell are by no means blameless for their and worsetshies are the important expectations of the market of the market for milk the development of the market of the market for milk the development of the market of the market for milk the development of the market of the market for milk the development of the market of the market for milk the development of the market of the market for market

Radiation monitor

ind that they ought to be refind a pariner in two weeks'
that this concern did not extend
to residents of Aberdour and
to residents of Aberdour and
Dalgety Bay within Ikm of a
refigerated ethylene tank
proposition.

Winfrith—though vou do not we are in a "derived demand" on an increase in the toil charge find a pariner in two weeks'
for the Severn Bridge.

Whatever the merits of his were exchanged for business
this concern did not extend
to residents of Aberdour and
the extraordinary lengths" to
which Aldermaston has allegedly
which A

months in arrears, and supported this contention by giving an example of a business which had a financial year-end on April bidding a planning proposal or correctly stated that the tax on profits for the year to April 5. safety must be the over-riding installments—on January 1 and large sought as authorities as shookespuers of their views on the subsorties as shookespuers. If yell that Mr Andrews is intelligence of Schedule D tax perione suggests the vast a whole.

majority want nothing at all to the formative years the UK similarly failed to make a satistic with any wide-scale extension plastics processing industry has factory impact in Japan.

of Sunday trading. And I believe had to survive on a thin gruet of the same view is held by the markets whose own capacity for with Japan of some leading indistributive trades workforce.

Enterprise House, Pack and Prime Lanc. Henley-on-Thames.

Planning for

and vegetables, are the important structure for polymers, items of our diet and of the food. One wonders what he

lf. however. Mr. Dingle refers to demand then it is very d'fficult to see what could be done by the polymer supplier. There is no doubt that in the early years of the polymer industry individual materials producers, through that in the producers. From Dr. E R Turton through their applications Sir.—Why cannot David Fish development efforts, exerted a luck and Lisa Wood state clearly great deal of influence on the that Aldermoston (August 28) development of the market through their applications of the control of the con

you print a photo in the UK exceeded 2m tonnes.
h a monitor This According to the British Plastics
the misleading Federation some 80 per cent of From the Managing Director,

trade unions representing the unicopmout has been sapped by dustrial countries are national economic uncertainty, la it any wonder therefore that there are weaknesses in the UK . ics processing industry? indeed, might not one argue that its ability to survive and grow at all on this diet is an unrecognised strength,

A restructuring of the market for polymers will only grow from the roots of the market itself. The role of the polymer industry.

Worcester Park, Surrey.

donations From the Editor,

referred to these same figures as "research done by the New State-sman." In fact, the source of these figures is an article due to be published in the September issue of "Labour Research," the monthly journal of the Labour Research Department an inde-pendent trade union research centre, founded in 1912. Brenda Kirsch. 75. Blockfriars iars Road,

Motorway

London, SEI.

Daigety Bay within 1km of a which: Aldermaston has allegedly tries. Certainly this must be the heen apparent why bridges alone prohiem needs action from both in the motorway network should in the motorway network should in the provinces who depend on bridges whether over the street in packaging and building areas. We have been used at Windscale they been used at Windscale ties processors have made a bridgest whether over the Severn.

The HSE gave no consideration used at Windscale ties processors have made a bridgest whether over the Severn ties processors have made a bridgest whether over the Severn major contribution in new protection to huzards beyond the loading jetty, and their evidence this year. It has been reported that Aldermaston has been minimise the work of the poly-prepared to share the burden.

Stephford, Birmingham.

| 10110 1181 | |
|-----------------|------------|
| \$m. 19 | 977 (1976) |
| | (Source |
| | OECD) |
| Ú.S 7,32 | (4.054) |
| France 44 | 5 (423) |
| W. Germany 128 | 8 (1.015) |
| Netherlands 100 | |
| UK 99 | |

indeed, Britain's record com-

a considerable cash flow advantage which would most certainly tage which would most certainly be lost if they were to be assessed on an actual basis.

G. Scotton.

20S. West Burnes Lane.

New Malden, Surrey.

Problems

The role of the polymer industry, pares favourably with that of the countries of the processing other industrialised countries. Caudie's letter and in particular the processing other industrialised countries. Other industrialis pares favourably with that of other industrialised countries. the greatest growth in the first half of this year, rising by 14.3 per cent in yen terms compared with 7.6 per cent for West Germany and a drop of 10.2 per

cent for the U.S. Mr. Nichols, in his letter, suggested a number of factors which caused frustration to our ex-porters. Many of these stem From the Editor,

Sir. — In Men and Matters
(August 21) there was a considerable protection. Japanese industry enjoyed considerable protection. Japanese business leaders have acknowledged that Japan has to change her industrial structure to meet the new intermational economic convincement. Your newspaper. Farty in a letter (August 24) for instance, has published reports of a crash programment. increase imports. We hope the these and other measures will promote a generous growth in imports and not just lead to the

the stockpiling of raw materials. Mr. Newman's description o the crucial need to cultivate long lerm business relations and understandings in Japan is correct. It is a pity that he did not mention that there has been for many years in Tokyo and Osaka a large body of expairiate British businessmen from our major concerns and the UK trade companies, working to this ver

Although Mr Miyoshi indicates this was used in industrial apply Fine Tubes Ltd. that in his opinion short-term cations — most of them very Sir.—"Lombard" (August 24) visits to Japan are inadequate

GENERAL

Statement expected in Paria by M. Jean-Paul Parayre, head of Peuceot-Citroen, on his company's plans for Chrysler's operations.

Bank of Sweden may cut bank rate.

M. Joel, le Theule, French Trunsport Minister, in Bonn for talks with Herr alartin Gruner, State Socretary for Economic Affairs, on A-310 version of European Alrhus.

Prince Charles and Dr. David Owen, Foreign Secretary, attend funeral of Jomo Kenyata, late President of Kenya.

Prime Minister opens new Triplex windscreen factory at Kinga Norton, Birmingham.

Mrs Margaret Thatcher, Con
Margaret Thatcher, Con
Margaret Margaret Margaret Margaret Thatcher, Con
Margaret Thatcher, Con
Margaret Marg

Airs Margaret Thatcher, Con-

Final dividends: Crouch Group, Edmunds, 12.



WILLYOU FIND STANDARD CHARTERED?

In Thailand. No other British bank offers you more than Standard Chartered. We've been there for over 80 years and are an important part of commercial life.

Our branches are reached direct from your nearest Standard Chartered branch in the U.K: This gives your business the combined advantages of a British bank here and an established bank in Thailand. And our system is not only a lot quicker and more reliable, it saves you money too. Good reason to ring Keith Skinner on 01-623 7500 today to discuss this.



ield Tech

material from a High Street Prontagrint, was launched by a ensuring each shop continues to the shop operator. print shop, whether on a man with considerable expert-increase its business. domestic or business scale, are ence of franchise operations.

in what might he called the ing husiness. basic printing method, letter. He considers that press, since the days of Caxion, essence of success is a full and able to the licensee. This applies particularly to the continuous relationship with methods used in the small print each licensee, starting with a strong resistance to new ideas, equipment and materials,

. Attempts to introduce new խորդումներ յի կիս հետշեններ industry have caused consideras great, though less speciacular, the seven years of operation "point of sale" feature is a accounting sales promotion, use customers to prepare artivortant data therefore passed largely there is no record of a shop cartion character printer of ancillary equipment, etc. in one place and then print in the print in t

For the small printer, refusal Mr. Thirlwell claims. to adopt new technology has. An interesting aspect of the pany. Customers are offered practical experience,

static copying machines are now include an architect, a chef, and

in use in most offices . In recent years both fech- manager, montes have been considerably investment to produce good quality print print shoe. This has allowed by the title of the produced time and equipped, a launch came area, has been greatly reduced. These has been greatly reduced. These the company to expand rapidly when the job will be ready, the factors, coupled with a new without having to rely on shops work from a standardised approach to establishing print generating its own funding to price list. shops, has brought about a open new shops. The holder of Typical jobs include letter-keep in touch with licensees, and is planned for the Middle revolution behind the arcnes in the franchise deals with the heads, business cards, account and provide help and advice. East. The company says that

(he Because little change training course and continuing

Franchise

"" of "whiteness existing licensees were provi- "payment on collection" terms during the course, and is found themselves ously printers. People taking a are displayed on the till fronts, retained for future reference. underent by those using the new Proplaprint franchise have which is a feature of the Proplaprocesses, and went bankrunt, come from a variety of commer- print system. By rasisting on with the purchase of comin- printed in the local Prontaprin The new methods being used east managerial and professional payment at the time of collectment, and a package of items by successful small printers backgrounds. The company tion the company says most of including till rolls, point of sale plant's workforce just down the are not, to fact, so very new -- says the idea generally appeals the problems associated with material, standard invoice sets, offset litho printing has been to the "business executive" cash flow are climinated, and if an accounting kit and standard around for a long time in type wanting to go into business helps to maintain a competitive promotional actwork is also ing in transit costs that actwork different forms, and electro- on their own. Typical operators price structure, newspaper advertisement

required

The town of interest is visited with the prospective licensee so look place for some 500 years, with marketing and publicity that the business potential of printing has become a highly support, quality control, assist, the area can be assessed and make them instantly recognis- to

havin; to close through failure, embodying the "fast and The final two weeks are spent in the shop nearest the distribution friendly" slogan of the com- in an operating shop to gain button point. One Pleet Street

Based on the premise that print customers are not all highly skilled print buyers, but do need to have an accurate

PEOPLE WHO buy printed Tyne. The company concerned, a strong vested interest in over 200 typical jobs to assist eroded by cost and overhead

Starting a new business, can generally be introduced to rates on paper, ink and other probably unaware of a revolu- Mr. Edwin Thirlwell made his possibly for the first time, is a sources of finance to supplement materials; and group discounts lim that has taken place in the first million in the ice group possibly for the first time, is a sources of finance to supplement materials; and group discounts the first million in the ice group. tion that has taken place in this first million in the ice cream period of great stress and their own capital. This usually on equipment, motor vehicles, part of the principle and their own capital. This usually on equipment, motor vehicles, part of the printing industry in husiness, and saw no reason mental pressure, but in husing takes the form of a hank loan insurance and health scheines both technology and managers why the successful franchising both technology and manage why the successful franchising a Proptagrant franchise the and/or leasing or hire purchase etc. As well as legal and mental property of the successful franchise and the successful franchise the and/or leasing or hire purchase etc. As well as legal and mental property of the successful franchise the successful franchise the successful franchise and for leasing or hire purchase etc. As well as legal and mental property of the successful franchise the successful franchise the successful franchise and for leasing or hire purchase etc. As well as legal and the successful franchise the success methods he used could not be company says that much of this to obtain the necessary equip management advice, other back There have been few changes used equally well in the print- is relieved by the standard ment. But all licensees are up services include relief systems, training, marketing required to have a substantial managers for holidays and ill and management back-up avail, amount of their own capital ness. At present 5 per cent of invested in the business. This the royalty income is used for is considered an essential ele- promotional activities, such a ment for success of the Yellow Page advertising and

operation. The licensee is given a fourweek training course. The first should be 73 shops operating conservative industry, with a ance with staff and supply of suitable premises found. The two weeks cover all aspects of in the UK, with total sales top overall design and appearance running a Prontagrint shop ping the £2m mark - a sub of the shop is standardised to from basic product knowledge stantial turnover in jobbin preparation of artwork printing. Target for the chair simple offset printing customer is 400 shons. able problems. The impact on. There are now some 30 shops. The name takes up to 40 per relations, product knowledge, the small printer has been just in the frontaprint chain, and in cent of the window area, and a recruitment of staff, basic network is that it enable

proved suicidal. Shops which husiness is that none of the free coffee while they wait. The inc manual is supplied for use produces finished artwork for Advice and assistance are given Darlington and 500 copies are

settling-in period, and is paid advanced to take Prontaprint for by Prontaprint. The com- into Europe. A pilot operation pany has regional directors to is already running in Australia

Where necessary, licensees Prontaprint obtains groun other marketing aids.

By the end of this year there

Part of the value of such A train- public relations consultane shop for distribution to the road at Newton Aycliffe.

Benefits claimed include say rather than bulk copies) speed of production-two colours in two days: and a cost saving of 60 per cent compared with Omce the shop is fitted out printers serving the Fleet Street

retail management problems, as ing stationery quantity survey For example, the costs of basic development in Europe could the owner and operator of the reports, right through to raw materials are monitored, well result in print jobs being It all started in 1971 when the owner and operator of the reports. five offset litho-based print shop. As the company collated 500 page documents, and new price structures are created in Birmingham for strong operand in the North relies on a continuing 10 per All can, be accurately costed suggested when the retail printing in Dusseldorf by the East, starting in Newcastle-upon- cent royally on sales, it too was and timed. Prontagrant lists margins are beginning to be early 80s. *When your senior executives fly over 0,000 miles a year to solve clients problems, that is called service.

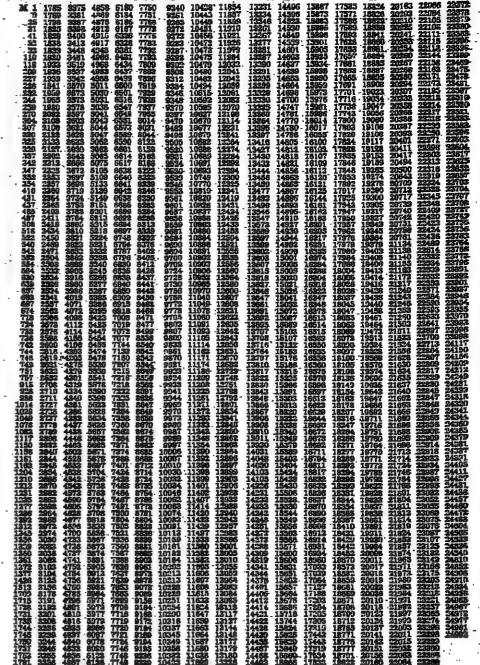
NOTICE OF REDEMPTION

To the Holders of

THE PROCTER & GAMBLE INTERNATIONAL COMPANY

61/2% Guaranteed Debentures Due 1982

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Indenture dated as of September 15, 1967, between The Procter & Camble International Company, The Procter & Gamble Company as Guarantor, and Morgan Guaranty Trust Company of New York, as Trustee, \$1,645,000 principal amount of the above Debentures has been selected by lot for redemption on September 15, 1978, through operation of the Sinking Fund, at the redemption price of 100% of the principal amount of the Sinking Fund, at the redemption of the Trustee of the Sinking Fund, at the redemption of the Trustee of the Sinking Fund, at the redemption of the Trustee of the Sinking Fund, at the redemption of the Sinking Fund, at the second state of the Sinking Fund. of, together with accroed interest thereon to said redemption date. The numbers of the said Debentures designated for redemption are as follows:



of the United States of America as at the time of payment shall be legal tender for the payment of public and private debts. Payment will be made upon presentation and surrender of the above Debeatures with coupons due September 15, 1979 and subsequent compons attached at (a) the corporate trust office of Morgan Guaranty Trust Company of New York, 15 Broad Street, New York, New York 19015; or (b) the main offices of Morgan Guaranty Trust Company of New York in Brussels, Frankfurt, Loudon and Paris; Banca Vouwiller & C. Sp.A. in Milan: Bank Meets & Hope NV in Amsterdam: and Kredietbank S.A. Luxembourgeoise in Luxembourg. Payments at the offices referred to in (b) will be made by check drawn on a dollar account, or by transfer to a dollar account maintained by the payer, with a bank in New York City.

Coupons due September 15, 1978 should be detached and collected in the contract of the contract of

Coupons due September 15, 1978 should be detached and collected in the usual manner.

On and after September 15, 1978 interest shall cease to accrue on the Debentures selected for THE PROCTER & GAMBLE INTERNATIONAL COMPANY By: Morgan Guaranty Trust Company

of New York, Trustee

Dated: August 15, 1978

Debentures previously called for redemption have not



electrocomponents limited

1978 RESULTS

Turnover increased 47% to £33.6m Exports up 39%

Profits up from £4.54m to £7.60m

Earnings per share up from 26.2p to 43.4p

Total dividend 5.05p—the maximum permitted for this year

Scrip issue of 1 for 1 proposed

Whilst turnover has increased by 44% and 47% respectively in the last two years, the company's reputation for superb stock availability and second-to-none service has been maintained and indeed improved.

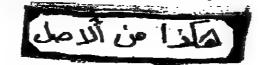
The increasing use of electronics in industry and our widening product ranges are reflected in the substantial sales increase.

I have no doubt that the current year, which is progressing very well, will show still further profitable development. 77.

R. A. MARLER, Chairman

Caples of the full Report and Accounts for the year to 31st March, 1978 are available from the Secretary, Electrocomponents Limited, 37-45 City Road, London EC1P 1HX.

Britain's biggest electronic components distributor



COMPANY NEWS

BOC profits down £12m to £48m for nine months

WITH group third quarter profit depressed by poor results of the ferro alloys business of the U.S. subsidiary Airco and of the metals businesses in Europe and Africa, pre-tax profit of BOC International fell from £60.4m to £48.8m in the nine months to

There was also hitse sign of improvement in the level of activity of the group's other main businesses in Europe, the direc-

After six months, pre-tax profit was down from £36.5m to £26.2m.
Adjusting for last September's rights recue, carnings por £1 share are shown to have fallen

The results of Airco, which became a wholly-owned subsidiary in May have been consolidated for the first time in the nine-months' figures from Ootober 1. 1977. In the corresponding period and for the year to September 30, 1977, group results in luded only 34 per cont of Sir Leslic Smith, chairman of

tion to trading profit from the Americas, £40.9m relates to Airco. Airco became a subsidiary. ment cost basis and charging Sterling strengthened only mar-depreciation on the revalued ginally over the three months to amounts. The practice has been



Airco's pre-tax proof.

Of the £42m (£15.7m) contributhird quarter with poor results from Europe.

A £20.4m deduction has also been June 30, 1978 and the effect on made from tracking profit to group profit before tax was not exclude that part of Airco's profit material. exclude that part of Airco's profit malorial.

The group's policy includes balances and short term means, which is attributable to outside shareholders in the period before revoluting assets on to a replace ings and finance leases amounted ment cost basis and charging to £512.9m (£230.7m).

extended progressively to cover further classes of assets (includof the group's assets are now shown in the balance sheet on a Alginate BOC Inti

Fraser Ansbacher

Gripperods Hidgs.

revalued basis. The depreciation arising from the revaluation of further classes of assets during the current year (including those of Airco) is estimated at £5m for the nine in arriving at the group trading



At June 30 this year, fixed assets are shown at £809.4m (£433.9m at March 31, 1978), associated companies and investments, £24.5m (£152m) and working capital (excluding bank balances and short term loans) at £281.9m (£126.7m). Net borrowings and finance leases amounted

Pearl life premiums well ahead

when profits were \$3.48m, a 2.593980 final was paid.

Fax for the period was £804,000 (£614,006), and after extraordinary losses of £1,000 (£12,000) available profit came out at \$307,000 (£610,000), with dividends

King & Shaxson

Group Results for 1977/8

ie i income Offer Bid

Sales

Trading profit

depreciation

Pre-tax profit/(loss)

Earnings per share

Ordinary dividends

per share

Insurance side lifts London United

WITH ITS underwriting loss in the industrial branch.

able loss of the general branch of Pearl Assurance jumped from \$0.22m ito \$1.17m in the June 30, 1078 half year. General branch formiums written totalled £20.22m compared with £18.24m.

Directors of the general branch say that while provisional half-year figures are never a reliable guide to the full year, this branch is unlikely to make a positive contribution to the group's profit for 1973 in view of the first half estimates.

On the life side, ordinary branch new premiums written in the half jumped from £4.3m in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promiums written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the promium written in the half jumped from £4.3m in the motion and intervalling loss from £4.3m in the first half underwriting loss from £4.3m in the

were down £0.6m to £123.1m. (£708.000) before tax.

Premium income was £39.98m

Birectors say second half prospects are good, but say it would be unreasonable to expect the car and commercial vehicle Stock Market that Pearl is no branch to be maintained. More incidence of claims in the early history.

(and, in the case of the industrial 11 months.

Attributable loss was cut from freedling and high expense life f4.1m to £241.000, lefter tax of the industrial 11 months.

Attributable loss was cut from freedling and high expense life f4.1m to £241.000, lefter tax of the industrial 11 months.

Attributable loss was cut from freedling and feedling factors add.

Attributable loss was cut from freedling to £241.000 (£2.95m), a continuing success-or a profit on debits of £150,000 (nii) transfer from general provision and minorities that of £2,000.

The directors add.

Middway II

Nu-Swift tops £0.55m in

loss (not consolidated), in the period, but the Board anticipates it will start to earn profits in the last quarter of this year.

HAZLEWOODS

(PROPRIETARY)

sparkling first half

347

(229)

1.5p

0.9p

James Hartley Chairman

284

699

3.8p

2.5p

"Sales for the first quarter are well ahead of those

of a year ago and I remain confident that there will

Gopies of the 1977/78 Report and Accounts can be obtained from the Secretary, Dearne Mills, Darton, Barnsley S75 5NH.

be a rewarding outcome for 1978/79."

sparkling the new business flaures fit, 000 for here, they are unlikely to have 31, 1978, much impact on Pearl's huge £1.112.000 d (and, in the case of the industrial 11 months.

The directors consider the full year results mark an important atage in the progress towards a return to full profitability and say that since the year.

They say that since the year and properties with a book value of £1,000 with a prospective 4.5 per cent, and properties with a book value of £1,000 may a single 0.03250 net £1,000 may a small lincome of £1,000 may and rental lincome of £1,000 may a small lincome of £1,000 may a small lincome of £1,000 may a small lincome of £1,000 may and rental lincome of £1,000 may a single 0.03250 net £0,000 giving gearings and adjusted and five small say that since the profits of £1,000 may and rental lincome of £10,000 may and rental lincome of £10, INSURANCE activities absorbing £214,000 (£180,000): start. So the shares at 184p yield increasing their trading contribuThey say that since the year- a prospective 4.5 per cent, and
tion from £127m to £1.76m and end properties with a book value
stand on a prospective p/e of 7.2.

INDEX TO COMPANY HIGHLIGHTS Page Col. Company

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5 Howden Group

Nu-Swift

6 London Utd. Inv.

Pearl Assnce

4 Slough Estates

5 Weir Group

First quarter drop

at Johnson Matthey

Fraser Ansbacher £1.2m

banking turnround

Quick (H. & L.)

. 33

33

tion from £1.27m to £1.78m and properties with a book value of £1.03m and rental income of £1.03m and rental incom

RESULTS OF Nu-Switt Industries are at record levels for the first at 2.75p against 2.57p and the form 2.50m to 23.35m and the form 2.50m to 2.53m and the form 2.50m to 2.53m and pre-tax profits showing a 7 per cent risk at 2.75p against 2.57p and the form 2.50m to 2.53m and the form 2.50m to 2.53m and pre-tax profits showing a 7 per cent risk at 2.75p against 2.57p and the form 2.50m to 2.53m and the form 2.50m to 2.53m and pre-tax profits in the first half was up 16 per form 2.50m to 2.53m (2.50m) and 2.50m (2.50m) to 2.551,000.

The turnover total comprised 2.50m to 2.50

FOLLOWING A half-time loss of Australia and South Africa of £9,000 against £52,000 profits, £0.3m and £1.2m respectively.

Centrovincial Estates ended the year to March 25, 1978, with a including the revaluations are pre-tax deficit of £264,000, compared with a £259,000 surplus last time.

Net income from properties fell £6m to £20.4m.

The year end, medium and short-term loans were reduced by £6m to £20.4m.

Slough Estates expands in healthy UK market

The large reductions in directors' shareholdings at Hazlewoods (Proporticiary) last year were in connection with the share placing in April 1977. This was not explained in yesterday's report on the group's prospects.

As known, following the reverse takeover of two private pickle and beetroot groups, Ossett and Humber. Hazlewoods came back to the same time there was a place that the curcome for 1978 will (1.45m) leaving the net balance ing of 943,000 shares on behalf of exceed the peak £8.97m attained the vending families of Ossett and last year and forecast a maximum earnings per 25p share of 2.36p (1.83p).

ISSUE NEWS AND COMMENT

BTR rights to raise £24m -plans for dividend boost

FOR THE third consecutive year, BTR, engineering group, is making a rights issue, this time to raise £24.1m. Terms are one-for-seven at 283p compared with yesterday's 240p in the market, up 7p on the

Along with the issue comes a dividend forecast of a 30 per cent rise this year to 11p gross and half-year results (to June 30) showing pre-tax profits of £17.9m against £13.4m. The interim divi-dend is 5.5p.

TRST QUARTER profits at also being affected by the overspace of the profits of £17.5m against £13.6m to £1.32m in the June 30, 1978 period, on sales ahead from 197

Johnson Matthey's latest first quarter is 18.6 per cent down on last year's record figure largely because of reduced demand from 2.99p lifts the total to 4.65p in 1977 its major client, Ford, decided to take more than the (£50.102) left the net balance normal quarter total of autocatations. In the latest three months the demand has fallen back to fall in profit in 1976-77 from a more usual levels. The group is peak of £0.72m.

E29m on sales of £240.7m,
The greatest increases were registered in Europe where sales jumped by 49 per cent to £120m and profits by 41 per cent to £120m and profits by 41 per cent to £120m and profits by 41 per cent to £137m. In the Western Hemisphere sales are 6 per cent yesterday as compensation for nationalisation of parts of the 1821.385 decided to take more than the (£500.102) left the net balance normal quarter total of autocatation for the fill in profit in 1976-77 from a more usual levels. The group is peak of £0.72m.

E29m on sales of £240.7m,
The greatest increases were registered in Europe where sales jumped by 49 per cent to £120m and profits by 41 per cent to £120m and profits up by 33 per cent to £2.8m. Turnover in the Eastern Hemisphere is This issue is being made in the Eastern Hemisphere is This issue is being made to respect of the unquoted securities respect of the unquoted securities respect of the unquoted securities and profits are unchanged at 51.7m.

Had the three recent U.S.

Figure 1.240.7m,
The greatest increases were registered in Europe where sales are 6 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m and profits up by 41 per cent to £120m a



cash call

Howden Group, the Glasgow engineering company, is proposing to raise 12.4m from shareholders by way of a rights issue.

Terms of the issue are one-for-four at 55p each. In the market the shares closed at 84 p.

The rights is conditional upon shareholders' approval for an increase in the authorised capital at a meeting called for September 15.

Howden £2.4m

Dealings start today.

33

at a meeting called for September 15.

The directors state that the continued growth of the company's business both at home and overseas will require extra capital. Against this background they believe that an issue is desirable if the company is to maintain a "satisfactory relationship between stockholders' funds and borrowings."

They expect to pay a dividend Line cost of the mainton and brightness and borrowings. Sir David Nicholson, chairman and borrowings. They expect to pay a dividend larger Worcester bid has meant increase in dividend forecast. Sir David Nicholson, chairman and borrowings. They expect to pay a dividend forecast increase of 4.7p per share—an increase of 15 per cent.

About £9m of the rights proceeds will be used to repay part of the \$43.3m loans while the remainder will be used for future expansion.

The rights document shows that on June 30 the company had outstanding borrowings of £59m and there was cash and short term deposits of £14.1m. Since then the Cazenove.
Dealings in the new shares start in September 4.
See Lex

Compensation

Stock issue

See 1.22 growth both at home and abread will require financing and in particular the prospects in Canada for generator equipment look promising. In the short term the cash will be put on deposit. Lest April's balance where showed borrowings of £12.7m and on the other side of the coin there was east of 57.3m. Shareholders funds amounted to £15.4m. However, the company takes in substantial procompany takes in substantial pro-gress payments and in the last accounts there was some £14.6m included in the creditors figure. Still profits growth this year could be more impressive than in the recent past and at \$44p the ox-rights prospective p/e is probably around 5) while the yield is

Cement—Roadstone near £9m. midterm

ASSISTED BY a turnround from has been made in respect of BSALES OF Cement-Roadstone BSS3,000 losses to profits of unsecured lending to it.

BSS7,000 from its banking side.

Fraser Ansbacher reports a has been transferred from the balance of the unflocated general provision, now standing to it.

\$1,1978, increased from 58,64m and 18,1978, compared with a small surplus of while the balance of the unflocated provision, now standing to it.

\$11,1000 deficit for the previous at the previous at the previous of 184,000 for the year ended March allocated provision, now standing to it.

\$11,112,000 deficit for the previous at the previous and infectors add.

Attributable loss was cut from the previous of 184,000 (£235m), a will dway fise the results of fise coment company will be inadequate, but they object to fise,000 (£350m).

Attributable loss was cut from general provision of 184,000 (£255m), a good profit increase already means that the results of the coment company will be inadequate, but they object to fise,000 (£250,000).

Midway fise

BSST,000 from its banking side.

First-half tax charge is £833,000

And the previous and minorities the full form the previous and minorities in the coment command the previous and minorities in the coment of the appropriate requirement success of the previous and minorities in the coment command to move standing provision and minorities in the coment command the previous and minorities in the coment command the previous and the previous and minorities in the coment command the previous and the pr

First-half tax charge is £893,000

25 weeks 52 weeks

THE WEIR GROUP LIMITED

INTERIM STATEMENT

Results for 25 weeks ended 23rd June, 1978

Subject to Audit CONSOLIDATED PROFIT AND LOSS ACCOUNT

| | to 23rd June 1978 £'000s | to 24th June 1977 £'000s | to 30th Dec. 1977 £'000s |
|---|--------------------------------|--------------------------|--------------------------------|
| TURNOVER The Group | 87,542 | 81,380 | 160,432 |
| PROFIT BEFORE INTEREST AND TAX The Group Associated Companies | 5,236 540 | 5,392 576 | 10,722 |
| Interest payable less receivable | 5,776 1,260 | 5.968 1,438 | 11,939 2,816 |
| PROFIT BEFORE TAX Estimated Tax | 4,516 1,800 | 4,530 1,900 | 9.123 3,197 |
| PROFIT AFTER TAX Profit attributable to Minority Interests | 2,716 85 | 2.630 141 | 5.926 168 |
| PROFIT BEFORE EXTRAORDINARY ITEMS Extraordinary Items: Add (Deduct) | 2,631 359 | 2,489 (158) | 5,738 (2,744) |
| PROFIT ATTRIBUTABLE TO THE WEIR GROUP LTD. | 2,990 | 2,331 | 2,994 |
| EARNINGS PER SHARE | 10.6p | 10.0p | 23.0p |

INTERIM DIVIDEND An interim dividend of 1.8634p per share (1977: 1.694p) will be paid to Shareholders for the 52 weeks ending 29th December. 1978. Payment, absorbing £465,000, will be made on 8th 1_nuary, 1979 to Members on the Register at close of business on 4th December, 1978. TRADING AND PROSPECTS

Profit before tax for the first six months of the year was virtually unchanged from that earned in either half of 1977. This result was achieved against a background of difficult trading conditions, particularly for our foundries where profits were

adversely affected by the lowest level of United Kingdom demand experienced for several years by the steel casting industry. However, our main engineering subsidiary, Weir Pumps Ltd., performed well and good progress was made by Weir Westgarth Ltd. in their programme of desalination plant construction.

As predicted at our Annual General Meeting, the incidence of contract completions should lead to improved profits for the second half and it is therefore expected that 1978 as a whole will show an improvement on the results of the previous year.

The Weir Group Limited Cathcart Glasgow G44 4EX



cross-currents

The U.S.

present time.

maintained that there is no treaty and no customary international law which prevents a state or its nationals from using the resources of the sea-bed outside areas of national jurisdiction at the

Mr. Elliot Richardson, the U.S.

Sea Conference, denied that legislation currently before Congress was either contrary to international law or damaging to

MINING NEWS

BY PAUL CHEESERIGHT

AFTER INTEREST lower at larly for the group's foundries same as last time with the UK £1.26m, against £1.44m. Weir where profits were adversely Polypac company suffering a Group maintained taxable profit affected by the lowest level of further loss and Weir pumps on for the 25 weeks to July 23, 1978. UK demand seen in the steel the back of buoyant export

at £4.52m compared with £4.53m casting industry for several years, business, turning in profits of last time.

As predicted at the annual sidiary. Weir Pumps, performed from the desalination side reflect well and good progress was made the higher work load and the completions should lead to by Weir Westgarth in its promiting and the improved results for the second gramme of desalination plant and the construction.

The directors, therefore, and the improvement in the directors, therefore, and the improvement in the construction.

mproved results for the second standard plant to desandard plant to desandard plant. The directors, therefore, expect the current year as a whole will show an advance on the record £8.98m profit seen for all 1977.

Comment

Comment

Comment

Comment

Comment

**Unchanged pre-tax profits from the Wefr Group are perhaps an overall recovery in demand to £81.38m). Tax took the company did indicate a better recent investment has helped trim to £81.38m). Tax took second half. Foundry profits have costs but there may not be much second half. Foundry profits have and the net interim dividend is castings still low—the valve and the net interim dividend is castings still low—the valve and standing on a prospective p/e shops in Holland and Belgium to £81.38m). Tax took almost halved at £1m with scope left here. At 125p the gard half it had sold the entire forms and profit of the subsidiary—which ran £4 shops in Holland and a further 10 to £85650 (1.8940). The earth-moving equipment indus- (hased on last year's low tax profits of the second six months. Profits of about £16.3m look possible for the business in Holland and Belgium to be second six months. Profits of pulled out of its £18m retail about £16.3m look possible for the business in Holland and Belgium to peration had not produced a reasonable return and profit about £16.3m look possible for the business in Holland and Belgium to business in Holland and Belgium to peration had not produced a reasonable return and profit about £18.3m overall recovery in demand of the admission that the admission that the admission that the admission had not produced a reasonable return and profit about £18.3m overall recovery in demand of the admission that the admi raised to 1.8643p (1.894p). The earth-moving equipment indus (based on last year's low tax final last year was 3.509p. tries have been the most charge) of 4.6 (against a sector The result was achieved in diffidepressed customers. Elsewhere average of just under eight) and cult trading conditions, particuthe picture has been much the yielding a prospective 7 per cent

Davy Intl. orders at £1.24bn

statement that it will be the challenge for higher levels of enterprise displayed in world efficiency, markets that will determine the The UK companies are hoping group's future success, and says for further successes in obtaining • continent
this will require a presence large contracts.
through association in some The equipment design and Davy International exudes confi

Group sales

Depreciation

Americas

Operating costs

Group share of associated companies profits, less losses

GROUP TRADING PROFIT

GROUP TRADING PROFIT

GROUP PROFIT BEFORE TAX

AVAILABLE FOR DISPOSAL

Carminos per share (adjusted for Right's Issue)

Shareholders' funds I limority shareholders' interests

Fired assets

INVOSTRUE UTS

Deterred taxation and capital grants

Net borrowings and finance leases

pont, balances and short term loans)

The results of Airco have been accounted for as follows:

(£42.0 million), £40.9 million relates to Airco.

chection Group profit before tax was not material.

Ltd., Hammersmith House, London, W6 9DX, Tel. 01-748 2020.

Associated companies and

Working capital (e.cluding

Buckley, the chairman says, but Cologne will in future operate as The current cost profit is the sluggish world economy one company. Germany is now shown reduced to £21.67m by addicontinues to make the winning Davy's highest cost centre, but tional depreciation of £2.22m and of contracts hard.

Sir John is confident the cost of sales of £1.99m, offset by a He points out in his annual companies there will meet the £0.49m gearing adjustment.

this will require a present the equipment design and Davy International exacts contributional association in some The equipment design and Davy International exacts contribution further countries and, as opporting manufacture division—to be dence about the future but at the tunities allow, acquisition in known as Davy Engineering same time strikes a cautious note others.

Industries under the new, two about the immediate trend in the industries under the new, two about the immediate trend in the industries under the new two about the immediate trend in the industries.

BOC International Ltd

Airco became a wholly owned subsidiary in May 1978. In the results for

the nine months to 30 June 1978, shown below, Airco has been consolidated as from 1 October 1977. The results for the nine months

are therefore on a basis different from that of earlier periods when Airco

Group profit, unaudited, for the nine

1.10.77

30 6.78

£ million

917.0

49 1

85.7

2.8

98.5

3 2 14 8

20.4

48.8

24.4

18.1

30 6.78

northm 2

196

11153

809 4

24 5

2819

1.1158

(a) In column A, a, a subsidiary company. Group sales and trading profit therefore

(b) The Airco adjustment eliminates that part of Airco's trading profit attributable to

(c) In columns B and C as an associated company. Group results therefore include 34% of the profit before tax of Airco for nine months and twelve months respectively. 2) The Group's third quarter profit was depressed by the poor results of the ferro alloys

business of Arico and of the metals businesses in Europe and Africa. There was little sign of improvement in the level of activity of the Group's other main businesses in Europe.

2) Sterling strengthened only marginally over the three months to 30 June 1978 and the

4) The Group's policy includes revaluing assets on to a replacement cost basis and charging

Further copies of this report may be obtained from the Secretary, BOC International

depreciation on the revalued amounts. The practice has been extended progressively to

cover further classes of assets (including those of Airco) so that most of the Group's assets are now shown in the Balance Sheet on a revalued basis. The degreciation arising from the revaluation of further classes of assets during the current year (including those of Aircol is estimated at £5 million for the nine months, which has been charged in arriving at the Group trading profit of £88.5 million.

outside shareholders in the period before Airco became a subsidiary.

include 100% of Airco for the full nine months. Of the trading profit of the Americas

Condensed balance sheet,

unaudited as at 30 June 1978

Nine months Nine months ;

1.10.76

30.677

£ million

4156 **8**J.5

26.0

67.5

17.7

75.2

3 6 15 1

75.2 14.8

60 4 31.3

29 1

234

31 3 73

£ million

121

7120

1520

1267

7120

months 1.10.77 to 30.6.78, was:-

THE CURRENT order book at that demand will be restored to £48,15m, with the balance sheet Davy International is £1,24bn and former levels for some time, total ahead from £99,84m to prospects are quite good: Sir John Zimmer and Davy Powergas of £114,51m.

Meeting, Duchess Mews, September 26 at noon.

Despite the uncertainties there was expanses at the contribute of the corporation of this contribute of this

1.10.76

30.9.77

£ million

670 B

35.7

78.8

23.0

101.8

39.5

167 199

208

101.8

101.8

82.2 35.1

47.1 7.7

39 4

£ million

19.3

6191

401.4

97.3

120.4

619.1

BIDS AND DEALS

Dixons Photographic withdraws Sea-bed mining from Holland and Belgium

BY CHRISTINE HOIR

day that it had sold the entire Dutch subsidiary—which ran 64 shops in Holland and a further 10 concessions in Belgium-to Holland's largest retail chain. Vroom and Dreesmann Nederland.

V and D is to pay £2.63m for the Dutch chain which has net assets of £1.56m and a property interiors: surplus on a recent valuation of Garnar Scotblar £590,000. In addition V and D Le Bas (Edward) will assume responsibility for loan Noble and Lind capital of £2.9m owed by the subsidiary to the group. Yesterday, Mr. Stanley Kalms, Dixons' chairman, said that the

sale would release some £51m which would be used as general working capital for the group reasonable return since it was started five years ago. In 1977 started five years ago. In 1977 profits from it were £348,000 but last year they dropped to £225,000 and he expected they would fall

and he expected they would fall
again this year.
In terms of turnover the Dutch
In the Dutch In the Indicates Mr. Elliet Richardson, the U.S.
In the Dutch In the Stanley Holdings reported losses
In the July Holdings reported l

also admitted to problems

BOARD MEETINGS

The following companies have notified a dates of Board meetings to the Stock Exphanges. Such meetings are usually held for the purpose of considering dividends. Official indications are not available whether dividends concerned are interims to finals and the sub-dividends concerned are interime to finals and the sub-dividends concerned are interime to finals and the sub-dividends concerned are interime to finals and the sub-dividends concerned are interimed to final to the purpose of considering dividends concerned are interimed to final to the purpose of considering and Dixons has now only problem area.

However, "there is every interiment to ease the police movement to ease the ceptible movement to ease the control of an interiment to ease the control of an interiment to ease the control of the purpose of constraints. However, "there is every indication that we have now found the real problem area.

However, "there is every interiment to ease the control of decision that we have now found the real problem, weak under Extended to an interiment to ease the control of an interiment to ease the control of decision to an interiment to ease the control of the sub-bed and developing countries at the developed and developing countries at the found the recomposed and which procedures found to real problem area.

Interiment ERA Grow, Bonstead, Bridge, well Example and the sub-dividend to the first time the sub-dividend to the problem area.

Interiment ERA Grow, Bonstead, Bridge, well Example and the sub-dividend to the problem area.

Interiment ERA Grow, Bonstead, Bridge, well Example and the sub-dividend to the problem area.

However, The Ray Example and the sub-dividend to the

the weakness of the dollar would have an effect.

Dixons is not the only retail group to have found the going rough in Holland. Only in May, lines."

W. H. Smith, the newsagent and bookselier, pulled out of its joint retail operation in Holland after place of the services.

The millions of guilders " in its seven stores.

The previous month, A. G. Stanley Holdings reported losses garese, copper and cobalt—is the chief negative.

(£484,000) for the current year.

Erskine House leaves "Chorus Line"

Erskine House Investments is of the sale will be used as working come out at £184,731 (£88,588).

Erskine House Investments is of the sale will be used as working pulling out of its interest in one capital:

Comparative figures include of the current top West End stage

On completion of the sale Mr. Schous Line." The direction of the will resign as a change business.

The director of Erskine.

White Ltd. the theatrical and film year to March 31, was ahead from Calcuttal, the Rocky Horror Show and Marty Perhop and the Holy and the Holy and Marty Perhop and the Holy and Holy a

closures activities and provide day dispatched to shareholders its. The fixed assets of Marion, day dispatched to shareholders its. The fixed assets of Marion include even brick plants increasing Ibstock's capacity by 50 The group completed its per cent, also include an undevented increasing Ibstock's capacity by 50 The group completed its per cent, also include as undevented in the U.S. and a have been valued at June 1, 1978. Subsidiary of the Marion Brick loped freehold site of some fixed in Ullinois, brick maker in the U.S. and a have been valued at June 1, 1978. Subsidiary of the Marion Brick loped freehold site of some fixed for the Marion Brick loped freehold site of some fixed for the Marion Brick loped freehold site of some fixed for the Marion Ele 2484,000) for the current year. The deal has been financed by ending May 31, 1978 Marion has At the end of last year two loans aggregating \$9m of shown taxable profits of \$505,000.

Quebec doubts about asbestos takeover

Asbestos Corporation, the second period. largest fibre producer in Canada, about the intentions of the COI Quebec Government for a takeover. Sources at the Corporation cannot condim the statement last week by Mr. Jacques Parizezu, the provincial Finance Minister.

that takeover negotations will start shortly, reports Robert Gibbens from Montreal Asbestos Corporation is 34 per

White Ltd. the theatrical and film year to March 31, was ahead from production company behind the £179,796 to £250,849 before tax of and Monty Python and the Holy show, to Circle Investments, a £87,403, against £92,801. Turnover Grail, became a wholly owned Cayman Islands corporation, for jumped £6,59m to £15,96m. Of subsidiary in 1374. Though it this £12,74m (£6,12m) came from came to represent a lerge proportion of England and in March, 1977. £3,19m (£3,17m) over its profit record was erratic. As known, Erskine acquired the approval of the trustees £30,171 (£70,780) from the deal-of Erskine's convertible lean stock ings and other revenue. upon the approval of the trustees of Erskine's convertible loan stock.

Net asset value of Michael White at March 207,078 (£70,528) to profit and White at March 21, this year was net dealings and other revenue £207,078 (£70,528) to profit and the dealings and other revenue £20,179 (£28,079).

The Board believes that, having loan stock conversion in £20,179 (£28,079).

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The Board believes that the dealings and other revenue £20,179 (£28,079).

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The Board believes that the dealings and other revenue £20,179 (£28,079).

The log negotiations.

There is some confusion at stretch out the pre-negotiation

CONSOLIDATED TO MAKE MOVE

Consolidated Mines, the Philip pines group, is reported to be planning a takeover of operations at its refractory chromite deposit in Zambales Province, reports Leo Gonzaga from Manila.

is 34 per _ The property is presently General operated by Benguet Consolidated the does under contract to Consolidated. Aspertos Corporation is 34 per _ The property is presently cent controlled by General operated by Benguet Consolidated Dynamics of the U.S., which does under contract to Consolidated not want to sell. The sources said The reports have been neither that nothing had changed for confirmed nor denied by the several months and that there had parties involved, but have gained been no word either from the currency because of recent earn-Quebec Government or from ings performances.

Consolidated gains most of its income from the chromite

The Government announced its property sithough it has a copper intention to takeover the company several months ago. It has received a valuation of the business, prepared for it hy Kidder Peabody, the New York investment house.

property studings it has a copper mine which came to production at below planned capacity last year. During the 1978 first half its net exmines slipped to Ps 31.06m (£1.48m) from Ps 23.8m in the same period of 1977.

On the other hand Beneval oame period of 1977.
On the other hand Benguet's net

ment did relax its stand on a solidated is seeking either an takeover then it might then partakeover then it seeking either an takeover then it seeking either an takeover then it seeking either an takeover then its conditions. At present Benguet as better the including capital expenditure.

Opposition to Oliver Rix merger

A GROUP of small shareholders August 21 Charles Ernest Turton, interested in 255,000 (12.75 per in Oliver Rix, the British Leyland Norman Ashton Hill and Richard cent), interested in 255,000 (12.75 per cent).

approaching 10 per cent of the equity."

Mr. Wakely said yesterday that the dissidents proposed to hold a meeting next week.

Although the group's main aim is to keep Rix independent while it continues to recover profitability. It is also incensed at what it regards as the poor terms offered to Rix's shareholders by comparison with Manchester's. In particular his letter asks why Manchester is offering its shareholders a double dividend this year only if the offer goes through. Mr. Wakely said that this indicated that the extra payment would come as a result of Rix's contribution to the new required in following purchase of society — Francis Industries—Temple Bar Investment Trust has an interest in the ordinary course of his investment policy.

Curry. chairman, is trustee, sold Curry, chairman, is trustee, sold terest in further 12,500 shares 59,330 shares between June 27 and August 7, consideration £114,297.

Smr Life Assurance Society — Francis Industries—Temple Bar Investment Trust has an interest in the ordinary course of his investment policy.

Curry. chairman, is trustee, sold Curry, chairman, is trustee, sold August 7, consideration £114,297.

Smr Life Assurance Society — Francis Industries—Temple Bar Investment Trust has an interest in the ordinary course.

Francis Industries—Temple Bar Investment Trust has an interest in 450,000 shares (6.18 per cent).

Godfrey Davis — Rothschild owner of 2,195,000 shares (18.1 per shares and acceptance of recent).

Scholleged Processes — A. P. Investment Trust is beneficial owner of 2,195,000 shares (18.1 per shares and acceptance of recent).

Scholleged Processes — A. P. Investment Trust is beneficial owner of 2,195,000 shares (18.1 per shares and acceptance of recent).

The first of the offer goes through the continuary course.

Automotive Products—Camway cent).

Through Trust—D. E. Shares R. G. Bartatt director, in Franklin, director, on August 15. payment would come as a result of Rix's contribution to the new

N. M. Rothschild and Sons, now holds 1,911,692 ordinary shares and 1,287,124 3.5 per cent conver-

Bifurcated Engineering: Britan-nic Assurance has bought 168,000 Shares making total 848,000 (11.27 Initial Services: London and Manchester Assurance Company and subsidiaries own 107,000 5.95 per cent cumulative p preference shares (26.75 per cent).

Forward Technology Industries: Following the sale between June 13 and 26 by Estate Duties Investment Trust, Industrial and Commercial Finance Corporation now interested in 677,500 shares and Estate Duties Investment Trust in 205.833.

Trust in 205,873.

Bonser Engineering: N. Ashton Hill, a director, sold shares at 43p ps follows in non-beneficial capacity as trustee: On August 18 Charles Erpest Turton and Norman Ashton Hill FB1 account sold 1252,330 shares. Also on August 18, Norman Ashton Hill and Charles Ernest Turton FB2 account sold 950,707 shares. On

nature of the profits of the lo 191072p (1.72p) per 25p share received an approach which may industry, the sale is in the best by a final of 1.25072p. After lead to an offer. Its shares rose interests of Erskine. The proceeds minorities, attributable surplus 5p yesterday to 27p.

(8.6 per cent).
Bank of Scotland — Kuwait Inv-

this indicated that the extra payment would come as a result of Ris's contribution to the new company's profits.

Automotive Products—Camway cent).

Investments has bought 100,000 shares at 82 p and shares. E. G. Barratt, director, is a director of Camway.

Lilleshall Company—Nominal Salp from non-beneficial holding. Shares making holding 132,500 Howard Tenens Services—E. C. Morris, director, bought 100,000 shares on August 18. P. E. Morris, and 1,287,124, 3.5 per cent convertible cumulative redeemable ordinary shares and is now on August 24.

DIVIDENDS ANNOUNCED

| _ | | | ~~ | 2-007 | 3000 |
|--|-----------|--------------|----------|----------|---------|
| Ct | arrent | of s | ponding | for | Iast |
| | yment | payment | div. | year | year |
| BTRint. | 5.5§ | Nov. 27 | 4.2° | | 8.4* |
| Cement Roadstone int | 1,52 | Oct. 7 | 1,17* | | 2.98* |
| Erskine House | 1.25 | Oct. 20 | 1.73 | 1.91 | 1.72 |
| Gripperrods | 2.991 | Nov. 1 | 1.93 | 4.64 | 3.58 |
| Grovebell Group | 0.5 | Oct. 18 | 0.5 | _ | 1 |
| London Utd. Inv int. | 2.5 | Oct. 19 | 2.1* | _ | 421* |
| Lourho int | 2.41 | Oct. 3 | 2.33 | | 6.55 |
| Nu-Swift int. | 0.73 | Oct. 2 | 0.66 | Ξ | 1.57 |
| | 3.85 | Oct. 13 | 3.85 | _ | 12.59 |
| H. & J. Quick int. | 0.58 | Oct. 2 | 0.8* | | 1.65* |
| Slough Estates | 1 | Oct. 16 | 0.72 | _ | 2.27 |
| Thomas Robinson int. | | Oct. 12 | 0.74 | Ξ | 3.421 |
| Thurgar Bardex int. | | _ | 0.2 | | 0.68 |
| Weir Group, int. | | Jan. 8 | 1.69 | | 5.2 |
| Dividends shown pence per | share n | | where at | herwise | stated. |
| Equivalent after allow | ing for s | scrip issue. | †On c | pital ir | creased |
| | | | | | |

MONSANTO COMPANY AND SUBSIDIARIES

Statement of Consolidated Income

(Dollars in millions, except per share) Three Months Six Months

| | Enc | led | En | ded : |
|---------------------------------------|---------------------|-------------|-----------|-----------|
| | June | 30. | Jun | e 30, |
| | 1378 | 1977 | 1978 | 1977 |
| Net Sales | \$1,185.0 \$ | 31,122.1 | \$2,527.7 | \$2,428.2 |
| Cost of Goods Sold | 885.1 | 819.4 | 1,788.5 | 1,690.6 |
| Marketing and Administrative Expenses | 110,2 | - . 94.7 | 221.2 | 198.9 |
| Technological Expenses | | | | |
| | 1,037.3 | 955.1 | 2,105.1 | 1,978.6 |
| Operating Income | 147.7 | 167.0 | 422.6 | |
| Income Charges (Gredits): | | | | |
| Interest expense | . 23.5 | 21,9 | 44.9 | 48.6 |
| Other-net | (11.7) | (3.9) | 1.2 | (5,7) |
| | : 11,8 | 18.0 | 46.1 | 37,9 |
| Income Before Income Taxes | 135.9 | 149.0 | 376.5 | 411.7 |
| Income Taxes: | · | | · · · . | *** |
| Current | 41.5 | 44.7 | 144.9 | 1457 |
| Deferred | | | | 31.6 |
| | 59.8 | 67.5 | 164.7 | 1823 |
| Net Income | \$ 76.1 | 81.5 | \$ 211.8 | \$ 229.4 |
| Earnings per Common Share: | | · | | T |
| Primary | | | | |
| Fully diluted | | | | |

اعتدا من الاصل

However, it is thought in the industry that the Government may be having second thoughts about its position despite Mr. Although the increase was Parlseau's statement that it intends to go ahead with a takefore. It is believed that the profits in the 1978 first half at profits

The Marketing Scene

for Masius

IN THE FIRST significant account change of what could prove a record autumn for hirings and firings. Allied hirings and firings, Allied Breweries has switched its £2m Skol lager account out of BBDO and into D'Arcy-MacManus and Masius, writes Michael Thomp-

Masius has had a quiet year to date, but joint managing director Mike Johnson says the Skol gain has proved an "enormous boost" to morale and that the agency is on target for 1978 billings of around £59m.
Things are hotting up in lager.

Total MEAL-type spending on Skel in the 12 months to March 51 was £958,900 (MEAL does not log posters) compared with Harp's £960,200 via Ayer Barker Hegemann, Carling's £1,407,700 via McCann-Erickson, Carlsberg's £877,500 via KMP, and Heineken's £1,258,600 via Collett Dickenson

Masius, formerly known as the grocers of St. James's Square, will next year handle no less than an estimated £8m worth of drink advertising, including Babycham, Harveys, Grants of St. James, VP wines and Allied's other larger brand, Lowenbrau,

The Skol loss is particularly painful for BBDO. Although the account is already worth £2m, significant increases in advertising expenditure are expected

● KELLOGG'S IS BANKING £750,000 on the launch, starting tomorrow, of Kellogg's Extra, its first-ever hot cereal. It marks the company's every into the few instant hot oat cereal market. By next year Keliogg's aims to capture 25 per cent of a market at present led by Lyon's Ready Brek. Kellogg's Extra is the company's third national product launch this year, following Fudge Mix and Cracklin' ing Fudge Mix and Cracklin' Bran. Advertising is being handled by Leo Burnett, not Kellogg's main agency, which is

• DUNLOP SEMTEY (Retail Division) has appointed Dorland Advertising. The account is expected to bill more than £250,000 next year. Dorland has won 14 new accounts this year, including Liptons. Caterpillar and Toshiba. Semtex was pre-viously with Roe Downton (Gloucestor).



ception." So says Wendy

Smith, author of "Campaigning

for Choice," a review of the role of media-based publicity

in providing contraception which the Family Planning Association published this

According to the author:
"Responsible publicity for

birth control, using everyday language and putting contra-ception into the context of sex,

love and family security, should be allowed on TV. radio and in all newspapers "-a

delicate reference, presumably, to the absurd coyness with

which some newspapers have

in the past refused to carry family planning ads.

The report cites two major

barriers. First, the "lingering pseudo-fastidiousness of the

IBA, London Transport and

others" whose restrictions pre-

vent advertisers from effec-

tively using the mass media. Second, the campaigns them-

selves, which in the past have often wasted money and effort

"simply because of the sponsors' mively, distate for commercialism or plain lack of adequate funds."

week (£1).

O The Health Education Council

Marketing techniques exist: author's book, According to her, the most successful cameveryone is affected by them to some degree. It is illogical paigns of the past were those which related directly to the and inefficient not make use of those which can be adapted to every-day fundamentals of sex, love, family and security. the social marketing of contra-

liyou're a man at least ask the girl if she's on the pill wear a contraceptive if she's not. You can buy them a themters, burbers or sing machines.

The two-pairs of-feet advertisement shown here was part of a £75,000 Health Education Council campaign run last year via Saatchi and Saatchi year via saatcht and saatcht
-more accurately, run partly,
for both the Mirror and the
Sun refused to have any truck
with it, even when offered two
atternative visual treatments.
However, it did appear in a
range of teen magazines, some
of them owned by IPC.

One of the case studies in the report looks at the HEC's £100.000 cinema campaign pro-moting awareness of contra-ception services available under the NHS. The 45-second ad was shown in 1.500 cinemas in 1975-76. The cinemas was chosen as the best medium for communicating with a young, sexually active, mainly unmarried audience. This campaign and its attendaut evaluation, says the FPA, was arguably the best designed and funded of its kind. As

the campaign had no effect on

awareness of NHS contracep-

tive services, though the

awareness level seems to have been remarkably high to start INDUSTRIAL MARKETING

Building a disposable business

first major national industrial advertising campaign

INDEFATIGABLE trades Hi.Dri disposable paper towels The Assessment of Industrial analyses showed that a tight the first burst of the campaign unionists will be mortified to industry since the 1930s.

Narkets. A wide variety of trade schedule of six national magashowed this awareness level to it was not, however, until the paper for their workers. They must, however, under Acts of must, however, under Acts of its industrial market. Broadly using direct mail and supplements, would reach thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost used thrust into its industrial market. Broadly using direct mail and target at a gross insertion cost. In the first burst of the campain and target at a gross insertion cost. In the first burst of the campain and target at a gross insertion costs. In the first burst of the first burst of the first burst of the first burst leading to discriminatory legis- WINSTON FLETCHER describes the success of Kimberly-Clark's gleaned from continuous research

The celebrated Health and Safety at Work Act (HASAWA) demands that every working environment should be "so far environment should be "so far as is reasonably practical, safe and without risks to health" HASAWA's minutiae insist, for example, that all floors should be cleaned at least once a week.

In spite of all this concerned legislation, a small survey carried out last year for Kimberly-Clark's Industrial Division suggested that a massive 41 per cent of U.K. office and factory workers are dissatisfied with the standards of hygiene and cleantiness.

Probably the most fundards of hygiene and cleantiness.

The antimetical publications and of covering the industrial Division and on the content of the content ried out last year for Kumberty-Clark's Industrial Division suggested that a massive 41 per cent of U.K. office and factory workers are dissatisfied with the standards of hygiene and cleantiness mental single difference between at work; and 46 per cent feel them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart work; and 46 per cent feel them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at heart whereas consumer and industrial market them to be inferior to those at the washroom:

It was abbasins and tollet seats and—despite the legislation—and stonishing that the same survey industrial purchases typically factilities. Thus it was less than a stonishing that the same survey industrial purchases typically involve, the spending of other astonishing that the same survey industrial purchases; typically involve, the spending of other the short which still other people will be supported to the same as the survey industrial purchases; typically involve, the spending of other the same survey industrial purchases; typically involve, the spending of other the same survey industrial purchases; typically involve, the spending of other the spending of othe

and testing.
All of which sounds like an unmitigated paeon of praise to the use of national consumeras against trade and technical-

New products as a way of life

il happens, tests indicated that

the vame of new products and the initial results are satisfactory, market.

Sources for new ideas, it operates other recent new products infind it difficult to launch any it is certain that a considerable Against this background, should study the new product new product development per-Findus has organised itself by of having an up-to-date dossier kets such as toad in the help development performance of the gramme will follow. Findus, having, under the marketing on new frozen food companies, for whom which had 15 per cent of frozen director, a new products market-over the world. Thus, it felt They sell because they are confrozen food companies, for whom which had 15 per cent of frozen director, a new products market on new frozen food products all they sell because they are connew products are absolutely vital food retail sales in 1977, has also ing manager responsible for the world. Thus it felt they sell because they are connew products are absolutely vital food retail sales in 1977, has also ing manager responsible for the world. Thus it felt they sell because they are connew products all they are connew products are absolutely vital food retail sales in 1977, has also ing manager responsible for the world. Thus it felt they sell because they are connew products all they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. Thus it felt they are connected to the world. They are connected to the world. They are connected modity lines such as frozen vege- ducts and claims that as much existing brands marketing tables to added value convenience as a fifth of its current turnover manager looks after current products.

Is in products launched during business. The former, Peter

radies to added value convenience as a fifth of its current turnover products.

Birds Eye has recently ment is in products launched during business. The former, Peter Trimingham, has the task of seek into past five years. The activity ing and evaluating new opportances with China Dragon, has undoubtedly been helped by tunities, carrying out the relection of the recently surprised the industry by announcing a launch in frigerated space and which is ning and launching new products.

The former, Peter Trimingham, has the task of seek ing and evaluating new opportanties, carrying out the relection of the recent products in products, implementing the plantic first as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick, as usual, is to find the adults are over-weight and 25 trick. the retail rather keener on new products in frozen into test market or nationally.

ferent (possibly foreign) and something to slim.

 OFFSHORE INDUSTRIES the familiar (traditionally Eng-

lish).
Findus has developed the Something Special range, which firm at man in 1977; it consists of lasagne, cannellant THOSE WHO are cynical about than the catering area and, if foods than in any other grocery Findus continually seeks many somewhat Anglicised), while the value of new products and the initial results are satisfactory, market.

sburces for new ideas, it operates other recent new products infind it difficult to launch any it is certain that a considerable Against this background, in 49 countries and makes a point clude much more prosaic mar-

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

e RESEARCH Magnet for high field

behad it and other office harmfule ranges complete the coupon and return it to Alan Cooper Limited, Burdley Road, Todmorden, Lancashire OL14 7ED, or phone Todmorden 5 11.

When fully energised, the magnet, which has a contained energy of 150,000 Joules, can be mointained at its full field with-out an external power supply because of the zero electrical resistance property of superconductors. This is to be compared with the continuing power requirement of several MW by a similar, water-cooled magnet with conventional with conventional materials. The stainless steel former and

Studies

The statuless steel former and the electrical insulation had to be designed to withstand temperature changes from just introduced by National Semizero temperature, a superconductor is metallurgically with a guaranteed maximum nonlutter by Thor Cornegation of former and the electrical insulation had to be designed to withstand temperature at the superconductor is a new family of voltage to frequency converters with a guaranteed maximum non-

wire form of circular or similar cross section. These properties are of extreme importance in that they allow for the full mechanical support of the winding to contain the extremely high forces generated when the forces generated when the magnet is first cooled and then

Retrieval of many parts

Works deep

forces generated when the magnet is first cooled and then magn

5,000 - 10,000

The big new namein engineering

 Programme planning Routing systems design

Graphics design

 Data input, editing, and update

 Complete programme management & maintenance Personnel training

 Demonstrations & seminars General consultancy Services

Enquiries to: Managing Director

Link House Communications Ltd., Link House, West Street, Poole, Dorset.

Tel: Poole 71171. Telex 417109.



Address

Aids diesel-engine to run in frost LOW TEMPERATURES create reduced deposition of hard national Paint's laboratories problems in diesel engines that carbon and maintenance costs where it is now being manufacted in higher running costs, are reduced Challenging asserts tured.

the manufacturing and transport industries, is launching a product — Econosol Auto-D Wintergrade — that helps to maintain the efficiency of diesel engines even in the coldest winters. It contains compounds that inhibit the growth of large crystalline wax formations in fuel oil that are the root cause of blockages

The inclusion of fungicides ensures that the paint does not deteriorate during storage or after application.

The inclusion of fungicides ensures that the paint does not deteriorate during storage or after application.

The inclusion of fungicides ensures that the paint does not deteriorate during storage or after application.

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The inclusion of fungicides ensures that the paint does not deteriorate during storage or after application.

The paint is applied by spraying and is available in 25 or 205-litre packs. This material can either be air dried or force dried for 10 minutes at 120 degrees C. are the root cause of blockages to cut at temperatures below freezing. This makes it possible for engines to function at high efficiency at temperatures below the hazards minus 18 degrees C.

result in higher running costs, are reduced Chalbar asserts, tured. The fuel "gells" and this can By preventing oxidation and The coating is already being cause blockages and reduces the polymerisation, the diesel fuel is used on the inside of phenolic efficiency of the engine, simulstaneously increasing the volume gums and resins in the fuel for the backs of television of fumes emitted through the pumps and lines is inhibited, cabinets to prevent the build up exhaust.

Chalbar, a British company in complete combustion of trical specification called for a the fuel. In this way a smoother that specialises in the formulation of products to improve many types of combustion for the manufacturing and transport consumption.

For further details of user

minus 16 degrees C.

A GRAPHITE water-borne paint anti-static properties could be Exhaust smoke emission is cut with anti-static properties, put to good advantage.

down and the corrosive action of believed to be the first of its More from IP-IC, 380 Richmond sulphur trioxide is almost com-kind, has been developed in the Road. Kingston-upon-Thames, pletely climinated. There is a wood products section of Inter-Surrey KT2 (01-548 1234).

Although it was originally formulated for use in the television industry, the company envisages wider applications for the coating where its special

Waddingtons Playing Cards

TERNATIONAL FINANCIAL AND COMPANY NEWS

NORTH AMERICAN NEWS

Japanese stake for Data General

Chrysler looks for 10% rise in new car sales

BY JOHN WYLES

NEW YORK, August 30.

WESTBORO, August 30

DATA GENERAL has reached recovery in demand for its Omni and Horizon, and a new task of raising this money, which agreement in principle with vehicles during the 1979 model front-wheel-drive model from is double the company's normal shareholders of Nippon Minippon This will be in exchange for about 10 per cent and help boost butable to its inability to comgranting it an exchange for about to per cent and new points unitarie to its manufacture granting it an exclusive licence Chrysler's sagging share of the pete with redesigned full-sized to manufacture and sell Data U.S. market from about 13.5 per cars from General Motors and cent in the current model year Ford. But it adds that its new to 15 per cent.

Nippon will also be licensed its new 1979 models and sought on a non-exclusive basis in certain other countries in the Fait opresent a picture of a vigorous full-sized car market up from manufacturer confident of meet-East, including India. China. North and South Korea and the Philippines and will receive licences of new Data General impression of growing weakness of new Data General impression of growing weakness of a 10-year period subject to automatic renewal upon mutual consent of the parties.

Completion of the transaction is subject to necessary approvals

The most important features should bring its share of the 1979 model year would be at around 3.5 per cent to 7 per cent. Iteast as good as 1978, which looks likely to be the best combined sales year on record.

These new cars are consider. These new cars are consider about smaller and more light. These new cars are consider than their predecessors impression of growing weakness so as to meet the Federal be surprised if next year matches that the new full-sized car market up from around 3.5 per cent to 7 per cent. These new cars are consider. These new cars are consider about smaller and more light. However, most analysts would be surprised if next year matches the prought about by heavy financial Government's increasingly strinting that the new full-sized car market up from the proper cent to 7 per cent. These new cars are consider. These new cars are cons

by various Japanese govern of the model range, which will more to the gallon, ever, General Motors who last mental authorities and certain go on sain at the end of next. The redesign of this model year called the 1978 sales year rulings from the Internal month, are redesigned, more range represents a portion of the pretty accurately is predicting Revenue Service as to the U.S. fuel-efficient, full-sized cars, new \$7.5bn which Chrysler expects to 15.5m sales of cars and trucks in tax consequences to Data two-door versions of the Chrysler spend by 1982 in the develop- the 1979 model year.

year ended March 31 were about \$21.4m.

Reliance chief agrees to court order

By Our Own Correspondent

NEW YORK, August 30. MR. SAUL STEINBERG, chairman of Reliance Group, the diversified company which includes Lesseo, yesterday agreed to a court order barring him from future violations of the anti-fraud provisions of the Federal securities laws. Steinberg had earlier been accused by the Securities and Exchange Commission, together with Mr. violating these laws. Both men declined to admit or deny the

The SEC alleged that Mr. Steinberg induced Mr. Randall and others to buy stock in Pulte Home Corporation on the American Stock Exchange in July, August and September, 1976 on the basis of misleading statements about a

CHRYSLER TODAY forecast a front-wheel-drive small cars, the ment of new vehicles. The huge

Chrysler shares General Motors' optimism about the outlook for car and truck sales and to 15 per cent. Chrysler New Yorker, Chrysler the company's executive vice The company today unveiled Newport and Dodge St. Regis its new 1979 models and sought should bring its share of the to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research that the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of a vigorous full size of the top research to present a picture of the picture of the top research to present a picture of the picture

Bendix dividend lift expected

Last year. Bendix derived more car production in North America

BENDIX IS expected to chalk of Merrill Lynch predict that subsidiary, DBA of France, up its ninth consecutive year of Bendix's automotive sales and Mr. Phillippi reckons Mr. Phillippi reckons that

up its ninth consecutive year of Bendix's automotive sales and record earnings in fiscal 1979, operating profit will continue to despite an anticipated decline in advance next year.

North American car production in the new model year which begins on Friday.

Securities analysts also expect the quarterly dividend to be raised to at least 60 cents from the present rate of 57 cents this Autumn.

Last year Bendix decline in devance next year, and he expects 1979 model-year ending to brake parts business.

Mr. Phillippi reckons that DBA's losses will trim Bendix earnings by about 25 cents a share in the year ending. September 30.

He said Bendix was aiming for breakeven results at DBA's in fiscal 1979. It plans to sell DBA's aerospace and automotive elections and retain its and he expects 1979 model-year brake parts business.

than 63 per cent of its pre-tax to be flat or up to 5 per cent automotive pre-tax profit will operating net income from auto-lower than this year's 10.25m reach \$187.4m next year against and steering systems, oil filters. Both analysts believe that 1978 and \$165.3m last year, spark plugs and other com-Bendix will also benefit from For the company as a whole, ponents, as well as recreational price increases and greater analysts are projecting earnings wellies.

Analysts such as Mr. Joseph America, along with higher interpolation in North of \$5.70 a share in the year end-America, along with higher interpolation in North of \$5.70 a share in the year end-America, along with higher interpolation in September 30 and \$6.10 in Phillippi of Dean Witter national marging due to improve fiscal 1979, against \$5.29 last year. Reynoids and Mr. Paul Mallon ment at its largest overseas Reuter

motive products, including brake units.

Genesco leaves heavy losses behind

in Northwe

This announcement appears as a matter of record only.

U.S. \$13,700,000

United California Bank

Banque Extérieure d'Algérie

Medium term loan

Guaranteed by

Arranged by

Funds provided by

United California Bank

The Cleveland Trust Company First National Bank of Oregon

good faith and with no intention earned \$3.97 per share against against 20 cents. chemicals concern White of impropriety." \$1.84, while tools and equipment McDonough, the shoes, tools to \$1.61 from 67 cents.

Société Nationale de Sidérurgie

proposed business venture between Pulte and International Basic Economy Corporation. The SEC alleged that at the time Mr. Steinberg was planning to sell his Pulte stock.

Mr. Steinberg's lawyers said he agreed to the court order "solely to avoid the distraction and expense of protracted and pointies group, remained firmly to avoid the distraction and expense of protracted and pointies illigation." The charges, he said concerned "personal investment transactions conducted in Northwestern Steel and Wire higher per share loss of 21 cents share, while moths from \$2.38 to \$2.28 a share, while size and building materials concern, recorded a sizeable gain from increased its first bak earnings of \$2.28 a share, while Start bak earnings from \$1.80 to \$2.28 a share, while Simplicity Patterns, which provides a share to defect of \$11.12.

St. Steinberg's lawyers said he agreed to the court order "solely to avoid the distraction and expense of protracted and pointing the loss came down sharply from \$2.207 to \$4.34.

St. Steinberg's lawyers said he agreed to the court order "solely to avoid the distraction and expense of protracted and pointing the loss came down sharply from \$2.207 to \$4.34.

St. Steinberg's lawyers said he agreed to the court order "solely to avoid the distraction and expense of protracted and pointing the loss came down sharply from \$2.207 to \$4.34.

St. Steinberg's lawyers said he advanced from \$1.70 a share to defect of \$11.22.

St. St. St. While Servomation, the from \$2.50 cents during the in the red, although its per share from \$2.75 to \$3.50 last year.

Clothing company Palm Beach initial six months.

Clothing company Palm Beach Solet, which provides income tax services, reported a slightly months from \$2.39 to \$2.68 per share, while sector, Tandy Brands of \$2.07 to \$4.20.

Clothing company Palm Beach initial six months.

chemicals concern Whittaker rose

FTC probe for gases sale by Chemetron

THE U.S. Federal Trade Commission said it is investigating a proposal by Allegheny Ludium Industries to sell the industrial gases division of its Chemetron unit to Liquid Alr, which is French controlled.

In Chicago, meanwhile, a federal district judge accepted an agreement between Chemetron and Rhinechem, a unit of will delay the proposed sale of Chemetron's organic pigments division to the Bayer unit. The FTC's bureau of com-

petition in Washington declined to give details on its study of the proposed Chemetron-Liquid Air sale. Allegheny Ludium, in its second quarter report to shareholders, disclosed the FTC action is an item that referred investigations of both

Allegheny Ludium announced In June that it agreed to swap Chemetron's industrial gases division for an interest of about one-third in Liquid Air, which is 79 per cent owned by L'Air Liquide of France. Last year, the U.S. concern carned \$19.9m, or \$2.75 a share, on sales of \$294.5m.

U.S. investment abroad slows

WASHINGTON, August 30.

DIRECT investment abroad—defined as ownership of 10 per cent or more of a foreign company's stock—rose by 9.1 per cent last year to \$148.8bm, trailing the 9.9 per cent gain at the end of 1976 to \$136.4bu, the Commerce Department said.

Equity and intencompany outflows, which include loans and advances to affiliates and branches, increased by 25 per cent to 34.9bn at the end of 1977 from \$3.9bn at the end of

Grand Union offer

GRAND UNION, part of Sir James Goldsmith's Cavenham group, said that as of August 29, it received tenders for about 3.38m shares, or about 88 per cent of Colonial Stores common stock, at \$35 a share Reuter reports from Elmwood Park, The offer, worth over \$130m, has been extended to

Grand Union said that all shares properly tendered will be purchased and paid for as soon as practicable. All shares properly tendered during the a daily basis.

Saint Gobain plans to raise \$136m by rights

BY DAYID CURRY

PARIS, August-30

rights issue the French stock the group needs to replace some of FFrs.155 during the summer of its traditional but increasingly before rumours of the impendobsolete activities. He has cited ing rights issue eased the shares come the third leading company in recent weeks to take advantage of the right this recent weeks to take advantage of the right this recent which might be appropriate.

Jacques Borel International the

present values for the Saint rights issue. Sobain share price.

anequatery by existing resources victory.

and cash-flow. However, the Share values are up some 40 pany would move out of the red group's president M. Roger per cent on their end-of-year in 1979.

Martin has made no secret of levels for many companies. St.

See Lex

tage of the rise this year in share which might be appropriate.

Before the holidays Comfinacially troubled hotel and price values.

Jacques Borel International, the price values.

Behind this activity is the rise against FFr 57m. The new money will be in share values since the begindevoted to reinforcing the com- ning of the year, coupled with time of a borrowing operation pany's capital base since current the confidence engendered by the on the Paris bond market, the investment needs are covered government general election directors forecast that after con-

IN LAUNCHING the largest the fact that in the long term Gobain itself moved up to a peak

It is to tap shareholders for pagnic Generale d'Electricite led luss of FFr 58m (\$13m) for the FFr 594m, or \$136m. The issue the way to the stock market to the way to the stock market to first six months of 1978 compared will be on a one-for-six basis at taise FFr 300m and last week with a loss of FFr97m a year count of around 18 per cent on present values for the Saint rights issue. extraordinary items, the haif year losses totalled FFr 48m

In December last year, at the

Uddeholm forecasts a return to profitability

BY JOHN WALKER

UDDEHOLM, the Swedish steel year showed an increase of 21 and forest industry group, reper cent over the same period ports a somewhat less depressing in 1977 at SKr 356m (\$80m). Government is to issue DM1.4hn picture at the half-way stage The result in the steel section this year. The pre-tax loss for showed an improvement from a the first six months of 1978 pre-tax loss of SKr 21m in the same compared with a pre-tax loss of SKr 21m in the same compared with a pre-tax loss of period this year.

Group sales went up by 20 per suit, particularly in the steel section the first half of this year should give a positive result in the first half of this year and power divisions. The pre-tax will be fixed at 8 per cent and the 10-year bonds will be fixed at 8 per cent. Both issues will be priced at 99, and in each case DM100m of the issue takes in a SKr 200m recovery.

The forest industry division against last year, when the loss sales during the first half of this amounted to SKr 320m.

By jeffrey Brown
AFTER an absence from the public bond market of more than four months, the West German (Sv0m) of new paper spread between two tranches of six and 10 years.

The last five months of this sue will carry a coupon of 8 per cent and the 10-year bonds will be fixed at 8 per cent. Both issues will be priced at 99, and in each case DM100m of the issue will be available in the market for regulating purposes.

An issue by the Federal Republic has been expected for some time following the recent

EUROBONDS

EIB \$100m issue priced

BY FRANCIS GHILES

also moved higher by a quarter of a point to 8½ per cent, at one point touching 8% per cent.

The \$100m 12 year bond for the European Investment Bank was priced yesterday at 991 per cent. It will carry a coupon of AIFHHES STAKE

9 per cent and yield 9.1 per cent. Texas International Airlines said

Of the total amount of this issue, it now owned: 1.55m. shares of

slightly. The only new issue announced yesterday was a DM40m convertible for Stanley Trading was minimal, but Electric Company. The coupon dealers marked prices down by is understood to be 31 per cent an average of a quarter of a but other terms have not been point. The Floating Rate Note confirmed. Lead manager is sector remained quiet.

Airlines stake

Of the total amount of this issue, it now owned: 1.55m shares of of low margins.

880m will be placed in Japan National Airlines—about 18.2 Discussing the effects on and the remainder in Europe, per cent of the outstanding stock. Sulzer of the franc depreciation. The larger transhe, which is led at the close of trading yesterday, chairman Georg Sulzer told the by Nicko Securities, constitutes Reuter reports from Houston.

\$700m West German bond placing

By Jeffrey Brown

some time following the recent recovery in the domestic bond market. The latest issue is the first by the Federal authorities since April, when DM1.5bn in bonds, spread equally between three tranches ranging from six to 12 years, met with a very

Since then the Federal authori-The dollar sector of the bond the first public dollar denominated yesterday insted bond to be floated in by the rise in the U.S. prime Japan. The smaller tranche is rate: prompted by Chase led by Credit Sulase First Boston Manhattan, which moved its Ltd and will be placed outside prime rate up by a per cent to Japan and the U.S.

The Deutsche Mark sector was followed suit. Federal Funds active with prices edging up also moved higher by a quarter slightly. The only new issue of 8 per cent or less.

Sulzer orders below budget ZURICH, August 30.

Incoming orders of Swiss engineer Gebrueder Sulzer are now running about 25 per cent below budget and the quality of the husiness is in some cases taking the company into areas

weekly newspaper Weltwoche in an interview that the prices obtained for many deals are below cost. The business mix is getting steadily worse so that the average margin is on a pronounced downward trend, he said. Sulzer is taking on "bad orders" to avoid short time working. Reuter

SELECTED EURODOLLAR BOND PRICES MID-DAY INDICATIONS

Weekly netjasset value

on August 28, 1978 Tokyo Pacific Holdings N.V.

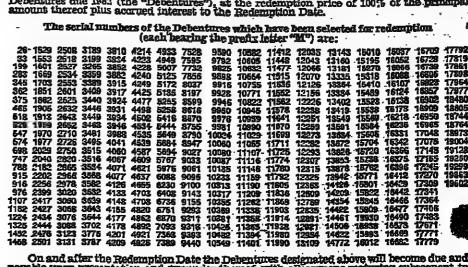
Tokyo Pacific Holdings (Seaboard) N.V. U.S. \$51.33

Listed on the Amsterdam Stock Exchange Information: Pierson, Heldring & Pierson N.V. Herengrecht 214, Amet

VONTOBEL EUROBOND INDICES 14.5.76=100%

U.S. Rubber Uniroyal Holdings Société Anonyme 👌 614% Guaranteed Sinking Fund Debentures due 1982

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Indenture dated as of April 1, 1987, there will be redeemed for account of the Sinking Fund on October 1, 1978 (the "Redemption Date") \$401,000 principal amount of the 612% Guaranteed Sinking Fund Debentures due 1983 (the "Debentures"), at the redemption price of 100% of the principal amount thereof plus accrued interest to the Redemption Date.



On and after the Redemption Date the Debentures designated above will become due and On and after the Redemption Date the Debentures designated above will become due and payable upon presentation and surrender thereof, with all coupons maturing subsequent to October 1, 1978, attached, either, at the option of the holder, at the office of Chemical Bank, by mail: P.O. Box 25983, Church Street Station, New York, New York 10249 or by hand: Corporate Tellers, 55 Water Street Room 244, 2nd Floor North Building, New York, New York 10041, or at the office of Mees and Hope in Amsterdam, the office of Société Genérale de Banque S.A. in Brussels, the office of Deutsche Bank A.C. in Frankfurt, the office of Hambros Bank Limited, Samuel Montagu & Co., Ltd., and S. G. Warburg & Co. Limited in London, the office of Banque Generale du Luxembourg, S.A. in Luxembourg, the office of Banco Nazionale del Lavoro in Milan and the office of Credit Lyonnate in Paris.

Interest on the Debentures so designated for redemption shall cease to accrute on and after the Redemption Date. All coupons maturing after said date which appertain to such Debentures shall be void. Coupons maturing on October 1, 1978, should be detached surrendered for payment in the usual manner.

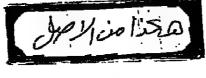
U.S. Rubber Uniroyal Holdings Société Anomy

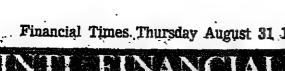
DATED: August 21, 1978

UNITED **CALIFORNIA** BANK Member of Western Bancorporation a

The Mitsui Trust and Banking Company Limited Pierson Heldring & Pierson (Hong Kong) Limited Riggs National Bank of Washington, D.C. The Royal Bank of Scotland Limited **UBAF Arab American Bank** Pacific National Bank of Washington Agent

The Mitsubishi Trust and Banking Corporation





Toray forecasts return to profit

By Our Financial Staff

competitors.
Toray said yesterday that a elugaish domestic synthetic textile market and a drop in export sales due to the yen's sharp apprecia-tion against the dollar were re-sponsible for the sales fall. Factors contributing to the year's losses included a sharp fall in parent company net income and a slump in some overseas subsidiaries, in-cluding a Hong Kong-based operation. By contrast domestic companies owned jointly with foreign partners "performed well."

Setback at Steelbrite JOHANNESBURG, August 30.

1116

THE RECESSION in South Africa's building industry is reflected in the preliminary results from one of the country's larger kitchen equipment manu-facturers, Steelbrite. After a first-half net loss of R152,000. the company has now reported a further deterioration and a loss of R695,000 (\$800,000) in the second six months to June 30,

rationalisation of its manufactur-ing divisions. The same prediction is repeated for the current period, and with little likelihood of new building starts recovering in anything but the medium term, a return to profitability is

Richard Rolfe adds: The industrial conglomerate Calan, whose interests range through lighting plastics and rubber, has reported its first profits setback inferests range through lighting. plastics and rubber. has reported its first profits setback for more than a decade in the 12 months to June 30. On turn-over up from R121m to R132m (8133m), income before tax fell from R8.7m to R6.9m (88m). After adjustment for minority interests and tax, net income was down from R8.7m to R4.5m. On this basis earnings per share were down from 81 cents to 61 cents, but the income state ment takes in not attributable income of associates of R0.7m for varnings, by this reckoning, down from 88 cents to 70 cents.

BY WONG SULONG

KUALA LUMPUR, August 30.

KUALA LUMPUR, August 30.

KUALA LUMPUR, August 30.

Sulgish results, Harper Gilfilian beings and travel group, has produced an encouraging set of find and travel group, has produced an encouraging set of half-year results, with pre-tax produced an encouraging set of half-year results, with pre-tax produced an encouraging set of half-year results, with pre-tax produced an encouraging set of half-year results, Harper Gilfilian by Our Own Correspondent

SyDNEY. August 30.

AUSTRALIAN Motor industries produced an encouraging set of half-year results, with pre-tax in tringits (\$1.8m).

Sales during the six months to june 30. From \$A5.87m to R4.5m. On this basis earnings per share first half of the year to 2.88m ringgits (\$2.8m).

Sales during the six months to june 30.

SyDNEY. August 30.

AUSTRALIAN Motor industries produced an encouraging set of half-year results, with pre-tax in trading and travel group, has produced an encouraging set of half-year results, Harper Gilfilian trading and travel group, has produced an encouraging set of half-year results, Harper Gilfilian trading and travel group, has produced an encouraging set of half-year results, Harper Gilfilian trading and travel group, has produced an encouraging set of half-year results, With pre-tax (AMI), which assembles and on the boom in the local share produced in travel group. Australian Sylver cent to family produced in trading and travel group, has produced in the ment c

BHP sees some signs of improvement in demand

BY IAMES FORTH

By Our Financial Staff

A STRIKING turnround from josses to profits was forecast yes, terday by Toray Industries, the largest producer of synthetic fibres in Japan.

The company made the prediction when unforting its consolidated sales last year underlike the extent of the recession that has gripped that the largest company in the respect to the company in the production when the production when the production when the production of the production when the production when the production when the production when the production of the production of

for the year ended April. Unlike Toray. Kanebo declined to provide any comparative figures with its fully consolidated accounts.

The company's problems stem from its three synthetic fibrative fictions (nyion, acrylic and polyester), which between them account for some 55 per cent of total sales. A relative newcomer to these markets, Kanebo is generally reckoned to have been forced into price cutting on a more substantial scale than most of its competitors.

Ioss of A\$43m from steel able business.

Continued recovery in export oil was correct, and to have done to continued recovery in export oil was correct, and to have done to in the immediate duced would have been unique future for improvement in the and, in terms of national objectives of facilitating exploration and orders were at their lowest the minerals division was development, counter-productive primarily due to the world-wide for four years.

Steel imports also affected downtura in demand for steel group's liquidity at the May 31 some of BHP's subsidiary and industry raw materials, which was balance-steet date was sound, associated companies. Raw steel reflected in reduced prices for with liquid funds of A\$233m.

Further small loans for Spain

raising loans in the months to to 1 per cent. Part of the procome, but one major operation ceeds of this loan, which is being for the kingdom is widely led by Chase Manhattan Asia, expected.

will help refinance earlier loans

This operation may be for as arranged by this borrower. co-led by Co-led by

SPANISH companies are constrained a standard agroup of three banks, with three years grace.

SPANISH companies are constrained a group of three banks, with three years grace.

Ioans in the syndicated credit PK Banken, Svenska Handels. The \$500m 10-year loan for market: the latest of these is a banken and Hambros. The Quebec Province, arranged by \$1,3355 before recovering to close to \$189.725 and the close

other Spanish utilities will be cent for the first five years rising per cent.

Another European borrower is the Kingdom of Thailand: lead on a spread of 2 per cent. Chase currently raising money: Assi manager is Grindlay Brandts, Manhattan has received the man-AB, the Swedish state-owned and the borrower is paying a date for the latest loan, as it did producer of sawn timber, is spread of 1 per cent for the first.

In Latin America, Empress Lineas Maritimas Argentinas is arranging a \$50m. loan for 11 years with a spread of \$ per cent throughout. The loan, which is co-led by Commerzbank and Bank of Montreal, carries a sovereign

The Republic of Liberia is raissecond six months to June 30, 1978.

After the first half. Steelbrite, which is 63.7 per cent owned by Johannesburg Consolidated by Johannesburg Consolidated by Johannesburg Consolidated about \$400m more than over the purchase of aircraft. Investment, predicted no second- same eight month period of last A loan of \$32m for eight in January last year when it

Seacorp first half rise

BY WONG SULONG

RUALA LUMPUR, August 30.

AMI reduces dividend

MR. YASAR'S TURKISH CONGLOMERATE

Object lesson for entrepreneurs

BY METIN MUNIR IN IZMIR



The Republic of Panama U.S. \$70,000,000

:: Floating Rate Serial Notes due 1990

For the six months 31st August, 1978 to 28th February, 1979

In accordance with the provisions of the Notes. - notice is hereby given that the rate of interest has been fixed at 10f per cent, per annum, and that the inte payable on the relevant interest payment date, 28th February, 1979 against Coupon No. 1 will be U.S. \$515-\$5

> The Industrial Bank of Japan, Limited Agent Bank

DENMARK can boast an unusual Turkish Lira 500,000 capital and intriguing figure as its (\$20,000 at the present exchange of honorary consul in Limit—Mr. rate) he started off. Gradually Selecuk Yasar. It may seem odd the small family workshop was transformed into a high-powered sales went well over \$100m last factory. Year should concern himself. Mr. Yasar's new enterprise, year should concern himself. Mr. Yasar's new enterprise, with Issuing visas. But an established in 1954, was the first the internationally length of its kind in Turkey. It now house from business empire shows that he is supplies the national market with Tuborg bear plant with United business with first of both of the carly 1850s, Mr. Yasar's fortune was built on his Danish connections.

In the early 1850s, Mr. Yasar's new enterprise, went to Denmark to the job; Mr. Yasar's fortune was built on his Danish connections.

In the early 1850s, Mr. Yasar should concern himself of the point subject of the point form the internationally known consolidated i (since Jame 8, 1978)

These factors were outweighed
Day-to-day credit was in unexpectedly short supply in the
London money market yesterday.
If a mount of a purchase
and resale agreement of bills, and
London money market yesterday.
If a mount of assistance given
surplus on the day. The excess
of Government disbursements over
revenue payments to the
Schequer was not as large as and once again banks are expected.
If a mount of local authority bills.
Discount houses paid 8-9 per
cent for secured call loans yestertenter more than the market call loans yesterrevenue payments to the
Schequer was not as large as and once again banks are expected.
If a mount of local authority bills.
Discount houses paid 8-9 per
cent for secured call loans yestertenter more than the market day with early money commanding 81-81 per cent.
Rates in the table below are
mominal in some cases.

joint venture with the Danes, which groused over 40m Turkish Lira (\$2m). The complex is at Cesame, the Turkish Aegean resort near tamir.

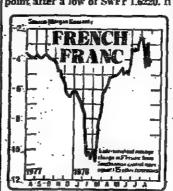
The Yasar group, which eelebrates its 10th anniversary as a holding company, is now one of the D biggest in Turkey and consists of 19 diversified companyables and two foundations employing 3,500 peuple. The overall capacity because the government results. Show a spectacular does not have the \$5m to snare

ploying 3,500 people. The overzil capacity because the government results, show a spectacular does not have the Sam to spare growth, typical of most large for their import requirements. Private industrial groups and So far both Yasar and the other paradoxical in view of the biggest holding companies have economic crisis.

Consolidated sales in 1977 their import channels staying rose by 38 per cent compared open, due to their long with the previous year to reach established supply lines and—2.1bn Turkish Lira (8111m), equally important—to the sharp The increase in profits was 85 increases in their sale prices, per cent to the equivalent of But given Turkey's bleak short-term outlook, neither can Apprehense shing rate for small significant per cent higher than the previous will either learn bow to export. per cent higher than the previous will either learn how to export

Dollar closes below best level

The U.S. dellar closed below its ing Tuesday's heavy selling best levels against most major triggered by the July trade currencies in yesterday's foreign figures. Trading was described exchange market with conditions as very moderate described as being fairly active. Late yesterday the dollar was Early trading saw the U.S. curquofed 'against the mark at rency slightly weaker but news DM1.98-25 (DM1.98-50 last night) that some U.S. banks had increased their prime rates by [SwFr 1.6235) against the Yen per cent to 94 per cent boosted (SwFr 1.6235) against the Yen the dollar. However, it finished Y189.10 (Y189.20) and aginst below its best level for the day sterling \$1.9370 (\$1.9460).



The West German mark closed slightly firmer at DM 1.9890 from DM 1.9910 having touched

reviously.

Sterling opened at \$1,9430- FFr 4,3750.

NEW YORK—The dollar had a against the previous fixing better than expected day follow- L845.30.

MONEY and GOLD

the could be to best level for the day on renewed fears that the U.S. PRANKFURT—The dollar was inflation rate could continue to fixed at DM 1.9855 compared with DM 1.9852 earlier on and Tuesday's DM 1.9892 earlier on and Tuesday's DM 1.9893 earlier on and Tuesday ea Against the Swiss franc, the dollar touched SwFr 1.6570 at one point after a low of SwFr 1.6220. It dollar may stabilise around its current levels ahead of any further news out of the U.S. Official intervention was not detected at the fixing although there may have been some support

there may have been some support through interbank dealings. In later frading the U.S. currency stood at DM 19927, an improvement on the fixing but below its best level of DM 19975.

ZURICH—Although above its worst levels, the dollar was somewhat weaker against most major currencies in moderately active trading. Recent measures to improve the dollar's position have been nullified by recent trade figures for July. The authorities had declined to intervene early ed at SwFr 1.6460 compared on in the day and the dollar was a SwFr 1.6350 on Tuesday, quoted at SwFr 1.63171, up from West German murk closed its morning low of around hity firmer at DM 1.9890 from SwFr 1.6300.

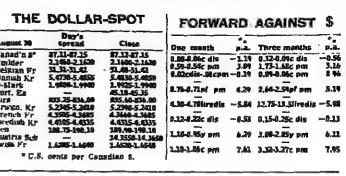
slightly firmer at DM 19880 from DM 1989 having touched DM 19763 during the day after a low-goint of DM 19963.

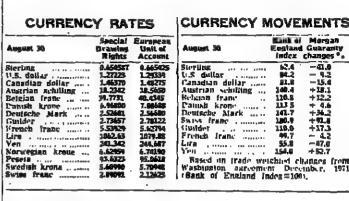
Using Morgan Guaranty figures at noos in New York, the dollar's prime rates to 91 per cent from 9 trade, weighted average depreciation widened to 2.2 per cent dollar was quoted at FF7 4.3475 earlier on but down on Tuesday's late level of

THE POUND SPOT 0 0.53-0.45c.ptm 2.97 1.22-1.12c.ptm 2.95 0.60-0.46c.ptm 2.42 1.20-1.10c.ptm 2.95 1.20-1.10c.ptm 2.10c.ptm 2.10c.ptm

Six-month forward dollar 2 C-2.85c pm 12-month 4.50-4.40c pm

Belgian rate is for convertible francs. Financial franc 62.69-62.70,





| Ang. 30 | ÷ | * | | Note Butpe |
|---|---------------|------------------------|-----------------|-------------------------|
| Argentine Pess | 1,610-1,614 | 829.46.831.53 | Sust rin | 27.50-28.5 62(c-65): |
| Finland Markka | 7,9370-7,9550 | 4,0960-4.0980 ° | Dennisck | 10.60-10.7 |
| Brazil Crussim | 35.96-36.96 | 18.53-19.04 | Fracer | 8.42.8.52 |
| Greece Drachma Hong Kong Donar. | 70.365-72.091 | | Germany | 3.80-3.90 1600-163 |
| Iran Rini | 134-140 | | Japan | 570-380 |
| Kuwait Dinar (KD) | | 0.2710-0.2750 | Netherland | 4,13-4,23 |
| Luxenhourg France | 60.65-60.75 | 31.25.31.29 | Norway | 10.14-10.2 |
| Maisrain Dollar | 4.45-4.461 | 2.2980 8.5(20 | Portugui | 85.93 |
| New Zeeland Dollar Saudi Ambia Riyai | 6.43 6.50 | | | 142-145 |
| Singapore Indian | | | Pariser land | 5.15-3,25 |
| Som b African Hand | 1 6784_1 3043 | 0.8647.0.87 9 0 | Vitalian States | 1.93;.1.9 39.00-42.0 |

EXCHANGE CROSS-RATES

| Pound Sterling | 1. | 1.941 | 3.250 | 367.0 | 8.45B | 5,195 | 4,200 | 1621. | 2.231 | 60.70 |
|--------------------|---------|--------|-------|-------|-------|-------|---------|-------|-------|-------|
| U.S. Dollar . * | 0.515 | 1. | 1.989 | 189.1 | 4.367 | 1.646 | 2,164 | 884.9 | 1.149 | 81.27 |
| Deutsche Mark | 0.259 | 0.503 | 10.52 | 95.08 | 2.191 | J.828 | 1.088 | 419.8 | U.578 | 15.73 |
| Japanece Fea 1,000 | 2.725 | 5.289 | | 1000. | 25.04 | 8,706 | 11.44 | 4416. | 6.079 | 165.4 |
| Pietich Pranc 10 | 1,182 | 2.295 | 4,564 | 485.9 | 10. | 3.778 | 4.955 | 1916. | 2.638 | 71.77 |
| Swith Pratic | 0,313 | 0.608 | 1,208 | 114.9 | 2.647 | 1. | 1,815 | 507.2 | 0.698 | 19.00 |
| Dairli fissibler | 0.238 ° | 0.462 | 0.919 | 87.38 | 2.014 | D.761 | 2.592 | 385.8 | 0.531 | 14.45 |
| Italian Line L000 | 0.617 | 1.198 | 2.362 | 226.5 | 5.219 | 1.972 | | 10-0. | 1.577 | 57.46 |
| Campian Ivilar | 0.448 | '0.570 | 1.730 | 164.5 | 3.791 | 1.432 | 1.883 | 725.4 | 3.675 | 27.21 |
| Beiginn Prane 300 | 1.647 | 3.198 | 6.339 | 604.5 | 13.95 | 5.264 | 6.919 , | 2670. | | 100. |
| | | | | | | | | | | |

| Hound Sterling, U.s. Ledler | Beutsche Mark Jamesee Ven | French Franc | perise Franc | Dutch Guilder | Italian Live Canada Dollar | Heiging Fr

EURO-CURRENCY INTEREST RATES

| Aug. 30 | Sterling | - Dular | Est Dollar | Dutch Gaskler | Swiss Franc | Mest Cerman | French Franc | Italian lara | Asian \$ | Jajanese Yen |
|----------------------|---------------------------------|---|--|---|---|---|--|--|---|---|
| Tales apolical Nouth | 10-11 1034-1114 111g-1115 | 814-914 814-914 814-914 812-813 918-814 | 814 814 814 814 713 71 834 9 9.014 | \$4-14 4-433 419-454 538-558 6-614 618-638 | 14-12 59-59 1-16-54 1-14-14 114-156 | 538-519 546-519 538-519 538-519 538-519 | 71s-74s 70s-77g 81g-85e 85g-87g W-91g 10-101g | \$2.35 121 ₂ .131 ₂ 13.14 151 ₂ .141 ₂ 14.15 141 ₄ .151 ₄ | 714.75g 758.754 813-81. 8-913 919-844 | -1,1 % -1,1 % -2,4 % -21,516 -316.512 |
| The following | no Sentente est | ac more anated | for Landon dell | lont-Pt | f dames a One | | | | | |

Long-ferm Surodillar deposits: (wo years 91-9) per cent: three years 91-9) per cent: four years 95/5-97/6 per cent: five years 91-9) per cent nominal closing Short-term rates are call for sterling, U.S. dollars and Canadians dollars: two dass' notice for guiders and Swiss france. Align rates are closing rates in Sing

INTERNATIONAL MONEY MARKET.

U.S. prime rates up

Several U.S. banks, including Call money quoted for the Belgian Chase Manhattan of New York, franc (commercial) eased to 51-7 cent. Six-month was unchanged have raised their prime lending per cent from 7-9 per cent, and at 7\frac{7}{2}-7\frac{7}{2} per cent. Six-month was unchanged at 7\frac{7}{2}-7\frac{7}{2} per cent. This is the first rise since cent from 6\frac{7}{2}-7 per cent. Three-the 9 per cent level became month funds were quoted at 7\frac{7}{4}-7\frac{7}{2} per cent. The per cent compared with 7\frac{7}{2}-7\frac{7}{2} per cent. The per cent day 10 \$206-206\frac{2}{2}. The metal opened at \$206-206\frac{2}{2} and reached money market in early trading and 12-month were unchanged at money market rates were unchanged from 3.45 per cent for the day during the money market in early trading and 12-month were unchanged at 7\frac{1}{2}-7\frac{1}{2} per cent and 7\frac{1}{2}-7\frac{1}{2} per cent and 7\frac{1}{2}-7\frac{1}{2} per cent for six-month.

SINGAPORE—The Bank of Tokyo is to raise its Singapore by the same amount to 7\frac{1}{2}-7\frac{1}{2} per cent. Six-month was unchanged at 7\frac{1}{2}-7\frac{1}{2} per cent. Three-tent cent for 12-7\frac{1}{2}-7\frac{1}{2} per cent. The metal opened at \$206-206\frac{2}{2} and reached best level for the day during the money market in early trading of \$206\frac{2}{2}-207\frac{1}{2}. However the morning of \$206\frac{2}{2}-207\frac{1}{2}. However the morning of \$206\frac{1}{2}-207\frac{1}{2}. However the morning of \$206\frac{1} inquidity into the market and helped to relieve upward pressure as federal funds traded around \$\frac{1}{3}\left{\text{opt}}\ \text{per cent.}\ \text{ later on rates continued to rise to \$\frac{1}{3}\left{\text{per cent.}}\ \text{ however, in very nervous conditions.} \text{BRUSSELS} — Discount and lombard rates were left unsalanged at 6 per cent. For cent.

BRUSSELS — Discount and lombard rates were left unsalanged at 7 per cent.

Barily per cent form tomorrow. The last change was in October last cent to 7 per cent. HONG KONG — The money market was tight, with call money in the day with the U.S. and six-month was unchanged at 6 per cent.

Barily per cent form 6-51 per cent.

BRUSSELS — Discount and lombard rates were left unsalanged at 7 per cent.

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Brussels — Discount and lombard rates were left unsalanged at 7 per cent.

Brussels — Discount and lombard rates were left unsalanged at 7 per cent.

Brussels — Discount and lombard rates were left unsalanged at 8 per cent from 52 per cent to 74 per cent from 52 per cent from 52 per cent lombard rates were left unsalanged at 8 per cent from 64 per cent from 64 per cent from 64 per ce

Bank of England Minimum

LONDON MONEY RATES

Lending Rate 16 per cent

UK MONEY MARKET

Very large help

924-94

In Frankfurt the 12½ kilo bar was fixed at DM13,145 per kilo (\$205.97 per ounce) compared with DM13,000 (\$199.94) on

GOLD

Firmer

tendency

| ET | | | |
|--|--|---|--|
| | | Aug. 30 | Aug. 28 |
| note circulation, and modest surplus balances carried over by the banks. These factors were outweighed by the unwinding of a purchase by the unwinding of a purchase and resale agreement of bills, and a net take-up of Treasury bills. The amount of assistance given by the authorities was probably rather more than the market should have required, however, and once again banks are expected to bring forward surplus balances, which may go some way to relieve the balances. | Gold Cours domestically Krugerrand New Sovereigns Old Sovereigns The Gold Cours internst totally Krugerrand New Sovereigns Gold Cours Gold Cour | \$206-2067 \$206-2062 \$206-2062 \$206-60 £106-005 \$204-80 £105-583 \$218-216 £218-617 £216-617 £216-218 £216-218 £216-218 £216-218 £216-218 £216-218 £216-218 £216-218 £216-218 £216-218 | \$204205 \$184184 \$189.40 \$189.40 \$199.70 £196.875, \$210212 \$20.51 \$5861 £5861 \$210.212 |

MONEY RATES NEW YORK

FRANCE JAPAN JAPAN
Discount Rate*,....
Call (Unconditional)
Bus Discount Rate

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Local amburity and finance houses seven days' notice, others' seven days fixed. Longer-term local amburity mortgage rate normals three years 11:-11: her cest: four years 11:-11! per cent: five years 12 per cent. O Bank bill rates in table are buying rate for prote pence. Beying rates for four-month bank bills \$55,572; per cent: four-month trade bills 3; per cent. Approximate selling rates for one-month bank bills \$12,516; per cent: four-month \$12,525; per cent: and three-month \$12,625; per cent: and t

STOCK MARKETS WORLD

Wall St. firm despite increased Prime Rate

a handful of major banks to a prime rate of 9, per cent up from 9 per cent previously. The move came sooner than expected but had been widely discounted.

The model of major banks to a prime rate of 9, per cent up from 2 per cent previously. The move came sooner than expected but had been widely discounted.

The model of major banks to a casino grou pin Florida which and Golds advanced 87 to 1547.2.

Todd Shipyard lost \$21 to \$291, votes on a gaming referendum in and Golds advanced 87 to 1547.2.

The company said it could not expected but had been widely discounted.

The model of major banks to a casino grou pin Florida which and Golds advanced 87 to 1547.2.

Todd Shipyard lost \$21 to \$291, votes on a gaming referendum in the market. Public Authority buying over a wide front. The office with the market. Public Authority buying over a wide front. The company said it could not explain the stock's activity. Among up 0.99 at 422.84.

The model of major banks to a prometric ment bond was well received in fairly active trading, with selective mixed, showing losses of up to 40 pfennigs and gains of up to 40 pfennigs and gains of up to 15 nfehnings.

Canada

NEW YORK

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Astronomical Astronomical Astronomy

Atl. Richfield.... Auto Data Proc...

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TOTAL VOLUME IN CONTRACTS

F370 F380 F27 50 F30 F32.50 F35 F75 850 860 870 825 860 870 152.50 F40

1240 1280 1300

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EUROPEAN OPTIONS EXCHANGE

Stock

Ligget Group..... Lifty (Kd) Litton Indust..... Lockheed Arry It, Lone Star Indus-Long Island Land... Languaga Land.... Languaga Land...

Lareky Stores...... L'ac Y'ungst'wn... MacMillan Macy R. H...... Mills, Hallover....

Potatonia.
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Rapio American.
Rev. (1881).
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\$87%

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Katter Alumint'm Kater Industries 285
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| Hohm & Hans. | S54e | S55e |
| Royal Dutch | 627e | 6214 |
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| Russ Lags | 1154 | 12 |
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| Salversy Stores | 275e | 2712 |
| St. Jee Minerals | 431e | 431e |
| St. Hegis Paper | 325e | 321e |
| Saul Invest | 7 | 7 |
| Saul Invest | 654 | 61e |
| Schlin Bewing | 125e | 13 |
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BASE LENDING RATES

A.B.N. Bank 10 % Hill Samuel 10 % American Express Bk 10 % Amro Bank 10 % Anno Bank 10 % A P Bank Ltd. 10 % Henry Ansbacher 10 % Bauco de Bilbao. 10 % Bank of Cyprus 10 % Bank of Cyprus 10 % Bank of Cyprus 10 % Bank of N.S.W. 10 % Banque Belge Ltd. 10 % Banque Belge Ltd. 10 % Banque du Rhone 10 % Barelays Bank 10 % Samuel Montagu 10 % Samuel Mo

Bremar Holdings Ltd. 11 %
Brit. Bank of Mid. East 10 %
Brown Shipley 10 %
Canada Perm't Trust 10 %
Capitol C & C Fin. Ltd. 10 %
Cayzer Ltd. 10 %
Cedar Holdings 10 %
Charterhouse Japhet. 10 %
C. E. Coates 10 %
Consolidated Credits. 10 %
Coroperative Bank 10 %
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Calgary Power...
Cambow Mines...
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CANADA

Christian 2914
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Sceptre R'sources

Trade Dev. Bank 10 %
Trustee Savings Bank 10 %
Twentieth Century Bk. 11 %
United Bank of Kunnin 10 %

United Bank of Kuwait 10 %
Whiteaway Laidlaw ... 104%
Williams & Glyn's ... 10 %
Yorkshire Bank 10 %

Members of the Accepting Homes Committee.

- 7-day deposits 77:, 1-month deposits

17-44y deposits on sums of f10,000 and under 61%, up to 525,000 75%, and over f25,000 86%.

† Bid. | Asked. | Traded. || New stock.

The market remained weak with the bourse index 0.7 lower Prices closed generally higher at 73.7. Among Banks, Credit du in fairly active trading. However, at 73.7. Among Banks, Credit du in fairly active trading. However, in announcing a cut in its base rate influenced by Bastogi Finanziaria to 8.90 from 9.05 per cent. St. SPA proposed incorporation of Gobain Pont a Blousson eased Benl Stabili. Both companies shares closed lower. First both Pirelli and Olivetti First and Construction were mixed. L'Oriol and Aquitaine trials, while Mediobanca in Banks both lost Frs9 while Carrefour and Gervals each fell Frs10. Insurances were marginally higher. Switzerland

Frs404.

First both Pirelli and Olivetti Frivileged gained in mixed Industrials, while Mediobanca in Banks and Assicurazioni Generall in Benerally elicity. Switzerland

Frs404.

Frs404.

First both Pirelli and Olivetti Frivileged gained in mixed Industrials, while Mediobanca in Banks and Assicurazioni Generall in Benerally elicity. Switzerland

Freese closed barely steady in Renerally quiet dealings. Leading

INVESTMENT DOLLAR
PREMIUM
St.560 to 11—915; (591%)
Effective S1.9410—9215; (5225)
SHAKING OFF a rise in the Prime interest rate, stocks finished rus-rowly higher in active trading on bactain hunting after two days of declines.

However, concern that U.S. inflated rus-rowly higher in active trading on bactain hunting after two days of the street of the prime interest rate, stocks finished rus-rowly higher in active trading on bactain hunting after two days of the street of the prime interest rate, stocks finished rus-rowly higher in active trading on bactain hunting after two days of the street of the prime interest rate, stocks finished rus-rowly higher in active trading on bactain hunting after two days of the street of

price cent previously. The move came sooner than expected but had been wisely discounted. The market was under pressure in the morning from the early prime rate move and from Tuesday's report of a widening of the Tuesday's report of a widening of the Tuesday in the most active the Tuesday in the morning from the early prime rate move and from Tuesday's report of a widening of the most active the Tuesday in the morning from the early prime rate move and from Tuesday's report of a widening of the Tuesday in the morning from the early prime rate move and from Tuesday's report of a widening of the Tuesday in the morning from the early prime rate move and from Tuesday's report of a widening of the most active. Abstible the most active, Abstible the most active. And the most active, Abstible the most active, Among papers, Abstible, the most active, Among papers, Abstible, the most active, Among papers, Abstible the most active, Among papers, Abstible, the most active, and the most active, Among papers, Abstible, the most active, and the most active, Among papers, Abstible, the most active, Among papers, Abstible, the most active, Among papers, Abstible, the most active, and the most active, Among papers, Abstible, the most active, and the most active, Among papers, Abstible, the most active, and the most active, Among papers, Abstible, the most active, and the propers and of the public works shares gained on expectations that the Government will implement additional weaker following the lower fedelines among Dutch Interest constitutions. Classification in the stock's activity. Among papers and object to site, and the weaker following the propers decines and the weaker following the propers of the public works shares gained on expectations that the Govern

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generally quiet dealings. Leading Banks and Insurances fluctuated Belgian shares were mostly Motor-Columbus and Oerliko Italy 116 58.68

Bergian shares were mostly Motor-Columbus and Oerliko Italy 116 58.68

Street. Among the losars were followed the general treed.

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|---|--|---|-------------------------------|
| i | GERMANY * | TOKYO ¶ | A |

| . Aug. 50 | Dm. + o | * UIT. | ZM. | Aug. 30 | Yen | - | \$ % | %. | Aug. 30 |
|--------------------|-----------------------|----------|------------|-------------------|----------------|--------------|-------|-----|-----------------------------------|
| AEG | 88.3 | | = | Ambi Glass | 326 | +4 | 14 | 9.1 | ACMIL (to cents) |
| Attienz Vermoh | 492 +3 | 31.2 | | Caton | 442 | | 12 | 1.4 | Acrow Australia |
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| Citatat, Sed, with | 142 : | | | Honda Motors | | | | 1.7 | Assoc. Con. Industries |
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| Daimler Benz | 258.5 -2 | | | Ito-Yokado | 682 | +1 | 16 | 9.8 | Auduraeo |
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| Demag | 299.6+1. | | | Kanest Elect Pw. | 1100 | +10 | 10 | 4.2 | Bamboo Craek Gold |
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| Dyckerholi Zemt. | 194.9 | 9.38 | 2.4 | | | | | | Bougainville Copper |
| Gutebotinung | 217.5 ÷ 2.0 | 12 | 2.8 | kubota' | | 10 | 쁆 | 2.7 | Stambles Industries |
| | | | | Kyoto-Genaruic | 0,00U | + 10 ' | 30 | 0.5 | Broken Hill Proprietary |
| Hapag Lloyd | 119.0 0.1 | | | Mitsubishi Bank. | | _3 _1 | 10 | 1.4 | BH South |
| Harpener | 168 | | | Mitsubishi Besys | 104 | | 12 | 4.8 | Curiton United Brewery |
| Hoeebet | 134.5 +0. | | 6.7 | Mitmiptepi Coth | 448 | -1 | 15 i | 1.5 | CSR (\$1) |
| Hoesch | 49.5 0.3 | | 4.0 | Mitaul & Co | 308 | <u> </u> | 14 | 2.3 | Cockburn Cement |
| Horten | 159.5 +2 | 9.63 | 3.5 | Mitsukoshi | 570 | i | 201 | 1.8 | Coles (G. J.) |
| Kali und Sala | 182.5 + 9.0 328 -1 | | | Nippon Denso | | | 18 | 0.5 | Container (\$1) |
| harmat kaufbot | 236.5 + D. | 25,44 | | Nippon Shinpan | 725 | +8 (| 12 ! | 0.8 | Consider (ST)-months or country |
| Licchner DM 100 | 44.70.4 | | 7.0 | Nasan Motors | | <u>-</u> ā ! | 18 | 11 | Contine Rictinto |
| FHD | 180.5 + 1. | | 5.2 | Plopeer | 1.890 | -10 | 48 ! | 1.5 | Costein Australia. |
| L-rupp | 104 | | | Sauvo Kiestrie | | | 12 | 2.5 | PRICOR! THE PRINCE (\$1) PRINCES. |
| Linde | | | 4.7 | Sekuui Pretab | 975 ; | +15) | ãu | 1.5 | Kkier-\mith |
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| Loui benne | 107.8 -2. | | 4.5 | SONY | 1,630 | + 10 | 40 | 1.3 | M./. Intustries |
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| MAN | 177.5 + 2.0 | | 4.8 | Lakeda Chemical. | 411 6 | 11 j | 19 ; | 1.8 | Hamersley |
| Metalige | 247 —1 | 10 | 2.0 | CDK | 2,090 (| | 30 | 0.7 | Hunker |
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| hedernwan | 162 +1 | 1 = 1 | === | tokyo Mamne | | | 11 | 1,1 | Inter-Capper |
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| Ribert West Blec. | 179.5-0.5 | 5 25 | 5.9 | Lokyn Sanyo | | + 2 | 12 1 | | Jones (David) |
| Schering | 270.5 + 1.0 | 2 2B. 12 | 5.2 | LONG. | 147 | +5 | 10 | 3.4 | Lennard Oli |
| 310mens | 290.8 +0.1 | | 2.8 | Loshitas Corp., | | | | 3,7 | Metals Exploration |
| Duri Zucker | 253 -2 | 26.5€ | 6.2 | Loyota Motor | 854 | +4 : | 20 i | 1.2 | MIM Holdings |
| Chyesen A.G | 120 -0.0 | | 7.8 | Source Nikk | n Securi | bes. To | kro | | Myer Emportum |
| Varia | 191.5,-1.0 | | 8.7 | | | | , | . [| News |
| VEBAVest Bk | 129.5 -1.4 | | 4.6 | | | | | ļ | North Broken B'dings (500) |
| Active assistant | 255 2 | 18 25 | 2.1 | BRUSSELS/LUI | KEMBO | URG | | | Unkbridge a diago (900) |
| * (4 He margini) | 200 , 2 | - 40 | | | | | ٦. | — i | Oli Search springer printers |
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| AMSTERDAM Aug. 30 | Price Fis. | +0 | Div. | Etil. | Aug. 30 Artel | 2.495 2,185 1,220 | +00 | Net 116 | | Otter Exploration Pioneer Concrete Bestatt & Column E. C. Sleigh | n., |
|---|---|--|--|--|--|---|--------------------------------------|---|---------------------------------|---|-----|
| Abaid (F1.2.) Akzo (F130) AlgemBak(F1.100) | 84.1 875≢ | -0.9 | A 28 | | HBBS Etectrobell Fai-rique Nat | 2,290 6,800 2,820 | | 460 170 | 7.6 6.3 6.0 | Waitona | 100 |
| AMBV (Fl.10) Amrotenk (Fl.20) Bljenkort | 80.9ml | | 125 | 5.7 5.5 5.2 | | 1.514 | -26 +5 | | 6,4 6.5 | PARIS | |
| BoksWest m(F.K) Buhrm Tetterode Elsevier V (Fi.E.) | 130.3 . 75.7 | | 82, 26 | 6.3 6.9 | Hotaken | 2,555 1,760 | -6 | 170 | 6.7 8.1 | Asg. 30 | |
| Bruin N.V. Bearer Eur ComTat [F]. 10 Gistal Brouxdes F]. He'nessen (F]. 289. Hoogovern (F]. 209. Houser (F). [10]. K.L. M. (F). [10]. Int. Muller (120). Nasarden (F). [6]. Nat. Nedlins [F]. [10]. Nedlins Blas FJ. 22. Acd Mid Blas FJ. 22. Uce (F). 20). | 143 68.8m 43.5 107.8 39.8 26.1 154.5 50.0 36.0 109.1 62.0 210 175.5 33.7 | -0.8 -0.5 -0.2 -0.4 -1.0 -0.5 -0.5 -0.5 +0.5 -0.5 | 57.1 94.6 20 14 14 19 19,5 48 21 22 56 | 5.1 4.5 13.0 4.6 5.8 7.6 3.5 4.4 6.8 | La Boyale Beige. Pau Holding. Petroling. So Gen Banque. So Gen Bengque softm. Solvay. Enaction Steet. US Min. (L.10). Vieilie Montagne | 6.050 2,930 3,830 3,050 2,035 3,280 2,450 2,450 1,100 1,772 1,810 | +50 +5 -5 -20 -10 -10 | 290 225 52.55 180 245 145 245 175 175 60 | 2.7 4.5 6.7 6.8 6.6 | U.I.T. Alcatel Cle Bencaire ClubMediter Credit Com. Fr'es Orange Loire Dumez | 1 |
| Van Ommeren Pakhoet (F1.20) Plumps (F1.10) | 150,0 ⁽ | | _ 17 | - 5.9 | Aug. 30 | l'mee Fra. | +04 | Dis- | Yij. | Fr. Petroles Gen. Occidentale. | ! |

| | NedUred BlaF1,20 NedMid BlaF1,50a | 62.0 -0.5 210 +0.5 | 21 | 6.8 5.2 | Viesija Montague | 1,810 | -40 | <u>. – 1</u> | | Club Mediter | 408.8 | -1.2 | 11.25 | 8.7 |
|--|--|---|--|--|--|--|--|---------------------------------------|--|--|--|--|--|---|
| | Uce (F1,20) | 175.51—L3 | | 4.1 | 1 | | | | | Credit Com. Fr'es Orearct Loire | 120 | 1 1.5 | .12 | 10.0 |
| | Ugem | 33.7 -0.2 | | 6.9 | SWITZERLAN | 1D 0 | | | | Dumez | 655 | 1-12 | 83.7b | 6.2 |
| | Van Ommeren | 150.01+2.1 | i – ! | - | J. (1) | | | | | i Fr. Petroles | 131.8 | -1.4 | 14.18 | 10.7 |
| | Pathoet (F1.20) | 42.6·+2.9 28.5;—0.2 | | 5.9 | | l ince | + or | Triad. | | Gen. Cockleniale. | | +0.4 | 8.25 | 4.0 |
| % | ikmesch veri Fi. 100 | 87 —1 | 1 ±′ i | 5.9 | Aug. 30 | Fra. | <u> </u> | * | à | I metal | 63.2 | -0.5 | 5.7 | 9.1 |
| 70 | Kobero (F1.50) | 177 -0.5 | A266 | 7.2 | | | 1 | | | Jacques Borel | 144 | 4_ | <u> </u> | l - - |
| 2 | Holiner (F).50i | 142 -0.5 | : — i | - | Alumintum | 1,170 | 10 | 8 | 3,4 | Lalarge | 205.6 750 | | 16.// | |
| 0 | Rogento (F1.50), | 123.9 + 0.1 | | | RBC .Y. """" | 1,610 | 5 _ i | 10 | 3.0 | Legrand | 1.812 | +12 | 15.:7 56.75 | 2.0 |
| erevered perevere | RevailOutch(Fi.20 playenburg | 134.5'1.5 259.0 +0.5 | | 7.9 | Clin Geigy Fr. 100 | 1.035 | 25 +5 | 22 | 2.1 | Maisons Phenix | 568 | 1—8 | 49.sl | 7.0 |
| 6 | Meventire (Fr.20) | 127 +1 | 27 | | Do. Part Cert. | 780 | +1 | 22 | 8.8 3.9 | Michelin "H" | 1.300 | -29 | 3c.58 12.6 | 2.5 |
| <u>5</u> | Tokyo Pac. Hate, \$ | 146 -4 | S0.5 | 0.5 | Do. Part Cert. Do. Reg Credit bulsee Kleetrowatt | 2.260 | +10 | 16 | 3.6 | Most Hermessey. | |]— <u>ĕ</u> ` | 1 <u>13</u> .6 | 2.5 |
| 5 | Uniteser (Ft.20) | 126.7 — 0.5 | 42.b | 6.8 | Kieetrowstt | 1,935 | 5 | 10 | 2.6 | Paritae. | 142 | -2 | 100 | 2.1 |
| 5 | Viking Revid(£1) | 41.0 -0.5 | | | Fischer (Feorge). Hoffman Pt Certa. | t20 | -5 | 6 | 4.0 | l l'echiner | 90 | -1.6 -1 | 7.5 | 8.3 |
| 5 | West Lit. Rephie | 391.5 -3.0 | 35 | 4.1 | | | | | 1.7 | Percod.Ricard | Z69.9 | 9.1 | 10 | 2.8 |
| šΙ | | | | | Do. (Small) | | 1100 | | 1.7 | Feurent-Litmen | 470 | -8 | 17.25 | 3.7 |
| 6 1 | | | | | latertood B | .5,900 | 15 | 20 21 | 2.6 | Poclain. | 207.5 | <u>-1.7</u> | : <u></u> : | |
| | | - | | | Jelmoh(Fr. 100) | 11,300 | | 21.5 | 1.4 2.5 | liaino Tecturique. | 430 | _8∵ | 27 | 6.5 |
| 5 6 | COPENHAGE | 4.4 | | | Do. Rec | | | 46.7 | 3.9 | Rhone Poulenc | 583 105.5 | -0.7 | 30 i | 5.2 8.6 |
| | l ——- | | | | Derithon B. (F.250) | 2.785 | +15 | 15 | 1.3 | L Gobain | 105.5 | 3_07 | 14 65 | 10.0 |
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| šl | Danske Bank | 1284 4 12 | 12 | 9.3 | personir (F,650) | 820 | 4 | | 4.8 | | 22.7 | <u> -u.+</u> | <u> </u> | |
| ĞΙ | Kast Asiatic Co | 1634 +14 | 18 : | 7.4 | Swiss Bok (F.100) | 383 | | 10 | 26 | STOCKHOLM | | | | |
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| ē | Briggerier | 37734 + 134 | 12 | 3.2 | Linuar Bank | 3.230 | -10 | 20 | 3.1 | Aug. 30 | Price | + .er | Div. | |
| 5 J | For. Papir | 93 —3. | | 3.2 8.5 | Lunch Ins | 3.230 | 10 50 | 20 | 3.1 1,9 | Aug. 30 | Krone | + 01 | Kr. | 3 |
| 5 J | For. Papir | 93 - 34 12912 + 12 275201 + 2 | 12 12 | _ | Linuar Bank | 3.230 | 10 50 | 20 | 3.1 | AUA AP(K) 200 | krone 210 | | kr. | 3 |
| 9.0.0 | For. Papit | 93 —34 1291 ₂ + 12 275m;+2 1943, —14 | īz | 8.5 5.9 5.2 | Linuar Bank | 3.230 | 50 | 20 | 3.1 | AUA APKI 50) | \$10 143 | | 5.6 | 3 |
| 9.0.0 | For, Papir | 93 —54 1291 ₂ + 1 ₂ 275m ₁ + 2 1945 ₁ — 14 115 —6 | 12 12 | 8.5 3.9 0.2 | Lunch Ins | 3.230 | | 20 | 3.1 | AGA AMKESO Ada LavaBiKrion Adka (Kriothi | 910 143 90.0 | -0.5 | 5.6 | 2.6 3.5 5.6 |
| 510,015 | For. Papir | 93 —34 1291 ₂ + 1 ₂ 275m ₁ + 2 1943 ₁ — 1 ₄ 115 — 6 1344 ₁ + 1 ₄ | 12 12 12 12 | 8.5 3.9 5.2 9.0 | Linuar Bank | 3.230 | j50 50 | 20 | 3.1 | AGA AMKI 50) Aita LavaBiKr50) ASEA (Kr50) AllaseCorem Kr20 | 210 143 90.0 127 | -0.5 +1 | Kr. 6.6 6 | 2.6 3.5 5.6 4.7 |
| 510,010 | For. Papir | 93 —54 1291 ₂ +1 ₂ 275m ₄ +2 1943 ₁ —14 115 —6 1341 ₄ +1 ₄ 1411 ₄ +1 ₂ | 12 12 12 12 - | 8.5 3.9 0.2 9.0 | Lunch Ins | 3.250 11,700 | 50 j | 20 44 | 3.1 1.9 | AGA AMKI 20) Ata LavaBiKr20; AMA (Kr20) AlaseCopen Kr20; Billerud Botors | 910 143 90.0 | -0.5 +1 | 6.6 6.6 6.6 | 2.6 3.5 5.6 4.7 5.9 |
| 0151515441515 | For. Papir | 93 —54 1291 ₂ + 12 275m; + 2 1943; —14 115 —6 1341 ₄ + 1 ₄ 1411 ₄ + 1 ₂ | 12 12 12 - | 8.5 5.9 5.2 9.0 7.7 2.9 | Union Bank Zurich Inc | 3.230 | -10 -50 + ur | 20 | 3.1 1.9 | AUA Arthubba. Arta LavaBrKrbDy Arbia (KrbD) Arbia (KrbD) AllassCopen Krbb Billerud Botors Carrio | \$10 143 90.0 127 67.5 115 | -0.5 +1 | Kr. 6.6 6 | 2.6 3.5 5.6 4.7 5.9 3.5 |
| 510,010 | For. Papir | 93 —54 1291 ₂ +1 ₂ 275m ₄ +2 1943 ₁ —14 115 —6 1341 ₄ +1 ₄ 1411 ₄ +1 ₂ | 12 12 12 12 - | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 | 3.230 11.700 Price Lire | -50 + ur ; | 20 44 Div. 3 | 3.1 1.9 | AUA Art Kr.500 Atta Lava BrKr500 A56A (Kr.500 AttassCopen Kr50 billerud Botors Carrio | 910 143 90.0 127 67.5 115 190 227 | -0.5 +1 | 5.75 | 2.5 5.5 5.6 4.7 5.9 3.0 4.4 |
| 9.5151515161616 | For. Papir | 93 —54 1291 ₂ +1 ₂ 275m ₄ +2 1943 ₁ —14 115 —6 1341 ₄ +1 ₄ 1411 ₄ +1 ₂ | 12 12 12 12 - 11 12 12 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 | 2.250 11.700 Price Lire | + ur | 20 44 Div. 3 | 3.1 1.9 | AUA ANKLOU. Alta LavaBiKrbO ASEA (KroOpen KrBb billerud Botoro Carrio. Cettulosa. Biect'ux-B'(KroO | 910 143 90.0 127 67.5 115 190 227 144 | -0.5 +1 +4 +2 | 5.75 5.75 6.5 | 2.5 5.5 5.6 4.7 5.9 3.5 4.4 4.4 |
| 0151515441515 | For. Papir | 93 —54 1291 ₂ +1 ₂ 275m ₄ +2 1943 ₁ —14 115 —6 1341 ₄ +1 ₄ 1411 ₄ +1 ₂ | 12 12 12 12 - 11 12 12 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 | 2.250 11.700 Price Lire | + ur | Div. 1 | 3.1 1.9 | AGA APIKE 200 Arta Lava Birketon Asta Kreson Astas Coren Kreso Bullerud Botoro Carrio Cettulosa Biect 'ux' B' (Kreso Briesson 'E' Kreso | \$10 143 90.0 127 67.5 115 120 227 144 142 | -0.5 +1 +4 +2 | 5.75 5.75 6.5 5.75 | 2.5.5.6 5.6 5.5 5.5 4.4 4.4 4.4 |
| 9.5151515161616 | For Papir Handesbunk Cr.N'th'n H., KreC Anni Kabel Citeratura Privatiana Privatiana Croynniana Soph. Herenses Superios | 93 —54 1291 ₂ +1 ₂ 275m ₄ +2 1943 ₁ —14 115 —6 1341 ₄ +1 ₄ 1411 ₄ +1 ₂ | 12 12 12 12 - 11 12 12 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANIC | 7rice Lire 105.25 639 | 50 23 73 | Div. 1 Lire | 3.1 1.9 | AUA AP(KLDD) Ada LavaBfKrbD AFEA (KrpD) AdaseCopen KrBs Billerud Boforo Carrio Cettulosa Elect*iux*BfKrbD Ernesson*Bf KrbC Saceto *Bf | 910 143 90.0 127 67.5 115 227 144 142 | -0.5 +1 +4 +2 +1 +1 | 5.75 10 6.5 9.6 | 2.55.5 5.6 5.5 5.5 4.4 4.4 4.4 4.4 4.4 |
| 815781515161616 | For. Papir | 93 -54 1291 ₂ + 1 ₂ 375m ₁ + 2 1943 ₁ - 1 ₄ 115 -6 1341 ₄ + 1 ₄ 1411 ₄ + 1 ₂ 409 | 12 12 12 12 11 11 12 12 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANIC | 7rice Lire 105.25 639 | 50 23 73 | Div. 1 Lire | 3.1 1.9 2 7.4 9.2 | AUA APIKE 200 Arta Lava Biker00 Arta Lava Biker00 AshaseCopen Kr2b: billerud Boforo Carrio Cettulosa Biest 'tux' B' (Arco Ernesson 'E' Kr3C Esaetto "B" Papersta Granges (free) Granges (free) | 910 143 90.0 127 67.5 115 190 227 144 142 - | -0.5 +1 +4 +2 | 5.75 5.75 10 6.5 9.6 4 | 2.55.67 5.55 4.4 4.4 4.4 4.0 |
| 815781515161616 | For Papir Handeubunk C.N'th'n H.Kreti Anni Katel Ultefatirit Privatiank Provinsiank Provinsiank Soph Reference Superior | 93 -54 12912+12 275m1+2 1945;-14 115 -6 13414+14 14114+12 109 18412-1 | 12 12 12 12 11 11 12 12 | 8.5 5.9 5.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANU Bastogs Fut Do. Priv. Fin-sider. | 3.230 11,700 Price Lire 105.25 639 2,038 1,640.8 173.5 | -50 -23 +73 +84.5 +3.5 +3.5 | Div. 1 Lire 160 150 | 3.1 1.9 | AUA ANKILDO Auta Lava Brikrioù Ariak (Kr.50) Alias Edopen Krith billerud Boforo Carrio Cerlulosa Elect 'ux' B' (Krit) Engelto "E" Papetria L'annges (free) Handlesbanken | \$10 143 90.0 127 67.5 115 190 227 144 142 302 61.5 387 | -0.5 +1 +4 +2 +1 +1 | 5.75 5.75 10 6.5 9.6 4 | 2.55.67 5.55.4.4 4.4 4.4 4.4 4.1 |
| 7 7 010 010 10 10 10 10 10 10 10 10 10 10 1 | For Papir Handesbunk Cr.N'th'n H., KreC Anni Kabel Citeratura Privatiana Privatiana Croynniana Soph. Herenses Superios | 93 -54 1291 ₂ + 1 ₂ 375m ₁ + 2 1943 ₁ - 1 ₄ 115 -6 1341 ₄ + 1 ₄ 1411 ₄ + 1 ₂ 409 | 12 12 12 12 11 11 12 12 | 8.5 5.9 5.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANU Bastogs Fut Do. Priv. Fin-sider. | 3.230 11,700 Price Lire 105.25 639 2,038 1,640.8 173.5 | -50 -23 +73 +84.5 +3.5 +3.5 | Div. 1 Lire 160 150 | 3.1 1.9 7.4 9.2 4.4 | AUA ANKI 200 Aita LavaBiKr500 Aita LavaBiKr500 AkiasiCopeniKr20 Billerud Boforo Cerio Cerio Ceriulosa Ceriulosa Elect'iux B'(Kr50 Brasson 'B' Kr50 Baseito "B" Fagetsta Cranges (free) Banalestanian Barat ou | 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 | -0.5 +1 +4 +2 +1 +1 -1.0 | 5.75 5.75 10 6.5 9.6 4 | 2.55.67 5.55 4.4 4.4 4.4 4.0 |
| מיפישיטיטיטיטיטיטיסי א א | For Papir Handensenk G.N'th'n H., Kreti Anni Kabel Ulteratura Privations Priv | 93 -54 12912 +12 275m1+2 1945; -14 115 -6 13414 +14 14114: +12 18412 -1 | 12 12 12 12 11 11 12 12 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANU Bastogs Frat Do, Frat Plander Italiander Italiander Italiander Mediobanca | 3.230 11,700 11,700 Price Lire 105.25 639 2,038 1,640.5 13.800 329 55.300 | -50 -23 +73 +54.5 +3.5 +3.6 +7 +7 +300 | Div. 1 Lire 160 150 1,200 | 3.1 1.9 7.4 9.2 4.4 3.4 | AUA APIKE 200 Arta Lava Bike 200 Arta Lava Bike 200 Arta Lava Bike 200 Arta Lava Bike 200 Billerud Boforo Carrio Certulosa Biect "ux" B'Kr 20 Erasson "b' Kr 20 Erasson "b' Kr 20 Erasson "b' Kr 20 Erasson (b' Res) Handlesbanken Marao ou Mo Och Dom-ko Mo Och Dom-ko | 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 | -0.5 +1 +4 +2 +1 +1 -10 +5 +1 | 5.75 6.5 5.75 10 6.5 9.6 4 | 2.55.6 5.5 5.5 4.4 4.4 4.0 4.0 4.0 4.0 4.0 4.0 |
| מיפישיטיטיטיטיטיטיסי א א | For Papir Handesdwak Cr.N'th'n H. KrsC And Kabel Cr.N'th'n H. KrsC And Kabel Cr.N'th'n H. KrsC And Kabel Crestants Crestants Crestants Privation Crestants Crestants Privation Crestants Privation Crestants Privation Crestants Privation Crestants Privation Crestants Privation Crestants | 93 -54 1291 ₂ + 1 ₂ 275m ₁ + 2 1945 ₁ - 1 ₄ 115 -6 1341 ₄ + 1 ₄ 1411 ₄ + 1 ₂ 409 1841 ₇ - 1 | 12 12 12 12 11 12 12 12 12 12 | 8.5 5.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 Price Lire 105.25 6.39 2,038 1,640.6 173.5 18.800 389 38.500 179 1,156 | -50 -25 +73 +54.5 +3.50 +7 +300 +9 | Div. 1 Lire 160 150 1,206 | 5.1.9 1.9 1.4.4 3.4 | AUA APIKE 200 Auta Lava Bikirti Olasika (Kr.20) Adiasa Copera Kržii bilierud Boforo Carrio Cetiulosa Eiest iux B (Kr.20) Eineston Bi Kriti Eineston Bi Changes (Iroe) Handlestanisen Marso ou Marso ou Marso ou Sandvik A. H S. K. F. B Kro | 210 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67 257 | -0.5 +1 +4 +2 +1 +1 -1.0 | 5.75 5.4 5.75 5.4 5.75 5.4 16 8 5.75 4.5 | 2.5.5.6 5.5.5 5.5.5 5.5.5 5.5.5 4.4 4.4 4.4 4.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2 |
| 7 815'8'6'5'8'6'8'8'8'8'8'8'8'8'8'8'8'8'8'8' | For Papir Handenshank G.N'th'n H., Kreti Anni Katsel Unerstumb Privations Privations Privations Privations VIENNA Ang. 30 Crestanstant Permoser | 93 -54 1291z + 12 275m1 + 2 1945; -14 115 -6 13414 + 14 14114 + 12 409 1841z -1 | 12 12 12 12 11 11 12 12 12 12 13 10 9r 58 | 8.5 5.9 0.2 9.0 7.7 2.9 6.5 | MILAN Aug. 30 ANU Bastogri Fust Laintder Lizander Lizan | 3.250 11,700 Price Lire 105.25 65.9 Z.038 1.640.8 173.5 35.300 329 35.300 1,156 1,156 | -50 -23 +73 +54,5 +3.5 +330 +7 +300 +9 -16 | Div. 1 Lire 160 150 1206 | 5.1.9 7.4 9.2 4.4 7.7 | AUA ANKI, 200 Auta Lava Birkröß Asia (Kr.50) Alias Edoptor Krift Billerud Boforo Carrio Cefulcoa Cefulcoa Elect 'ux' B' (Krift Essetto "B" Fagetsta Granges (free) Handlesbanisen Marso ou Jio Och Donnso Sandella A. H. S.K. F B' Kro 'skand Essekide Skand Essekide | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 51.5 67, 115 67, 75 | -0.5 +1 +4 +2 +1 +1 +5 +1 +2 | 5.75 5.5 5.75 6.5 5.75 9.6 4 16 8 5.75 4.5 | 2 5.5 5.6 4.7 5.5 5.4 4.4 4.4 4.4 4.7 2.0 2.0 2.0 4.9 |
| מיפישיטיטיטיטיטיטיסי א א | For. Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cliefatris Privatiana Privatiana Privatiana Doph. Herensen Superios VIENNA Ang. 30 Crestanistan Permoser Superta | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 10 9r 58 | 8.5 5.9 0.2 9.0 7.7 2.9 6.5 2.9 3.2 7.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1.9 1.9 1.4.4 3.4 | AUA Artiki 200 Aita Lava Bikiroto Asiki (Kr.20) Aita Lava Bikiroto Asiki (Kr.20) Akiasa Copera Kr2b. Billierud Botoro Carrio Celiulosa | 810 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 387 115 67 75 177 | -0.5 +1 +4 +2 +1 +1 +1 +1 +5 +1 | 5.75 10 6.5 9.6 4 16 9.6 4 16 8 | 2.5.5.6 5.5.5 5.5.5 5.5.5 5.5.5 4.4 4.4 4.4 4.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2 |
| מיפישיטיטיטיטיטיטיסימי א א | For. Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cliefatris Privatiana Privatiana Privatiana Doph. Herensen Superios VIENNA Ang. 30 Crestanistan Permoser Superta | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 12 10 9, 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANU Bastogri Fust Laintder Lizander Lizan | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54,5 +3.5 +330 +7 +300 +9 -16 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artki 150) Auta Lava Bikr60) Arta Lava Bikr60) Arta Lava Bikr60) Arta Kr50) Attas Lava Bikr60 Arta Kr50 Billerud Boforo Carrio Certulosa Certulosa Elect 'ux' B' (Kr50 Eresson 'B' Kr50 Undebolm | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +2 +1 +1 -10 +5 +1 +2 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.55.6 5.55.6 4.75.5 4.44.4 4.44.4 4.0 2.0 2.0 4.9 6.9 |
| מיפישיטיטיטיטיטיטיסימי א א | For Papir Handenshank G.N'th'n H., Kreti Anni Katsel Unerstumb Privations Privations Privations Privations VIENNA Ang. 30 Crestanstant Permoser | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 10 9r 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artiki 200 Aita Lava Bikiroto Asiki (Kr.20) Aita Lava Bikiroto Asiki (Kr.20) Akiasa Copera Kr2b. Billierud Botoro Carrio Celiulosa | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +4 +2 +1 +1 +1 +1 +5 +1 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.5 5.6 4.7 5.5 5.4 4.4 4.4 4.4 4.7 2.0 2.0 2.0 4.9 |
| מיפישיטיטיטיטיטיטיסימי א א | For. Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cliefatris Privatiana Privatiana Privatiana Doph. Herensen Superios VIENNA Ang. 30 Crestanistan Permoser Superta | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 12 10 9, 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artki 150) Auta Lava Bikr60) Arta Lava Bikr60) Arta Lava Bikr60) Arta Kr50) Attas Lava Bikr60 Arta Kr50 Billerud Boforo Carrio Certulosa Certulosa Elect 'ux' B' (Kr50 Eresson 'B' Kr50 Undebolm | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +2 +1 +1 -10 +5 +1 +2 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.55.6 5.55.6 4.75.5 4.44.4 4.44.4 4.0 2.0 2.0 4.9 6.9 |
| מיפישיטיטיטיטיטיטיסימי א א | For. Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cliefatris Privatiana Privatiana Privatiana Doph. Herensen Superios VIENNA Ang. 30 Crestanistan Permoser Superta | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 12 10 9, 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artki 150) Auta Lava Bikr60) Arta Lava Bikr60) Arta Lava Bikr60) Arta Kr50) Attas Lava Bikr60 Arta Kr50 Billerud Boforo Carrio Certulosa Certulosa Elect 'ux' B' (Kr50 Eresson 'B' Kr50 Undebolm | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +2 +1 +1 -10 +5 +1 +2 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.55.6 5.55.6 4.75.5 4.44.4 4.44.4 4.0 2.0 2.0 4.9 6.9 |
| מיפישיטיטיטיטיטיטיסימי א א | For Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cr.N'th'n H. KreC And Kabel Creation Privation | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 12 10 9, 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artki 150) Auta Lava Bikr60) Arta Lava Bikr60) Arta Lava Bikr60) Arta Kr50) Attas Lava Bikr60 Arta Kr50 Billerud Boforo Carrio Certulosa Certulosa Elect 'ux' B' (Kr50 Eresson 'B' Kr50 Undebolm | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +2 +1 +1 -10 +5 +1 +2 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.55.6 5.55.6 4.75.5 4.44.4 4.44.4 4.0 2.0 2.0 4.9 6.9 |
| מיפישיטיטיטיטיטיטיסימי א א | For. Papir Handesdwak Cr.N'th'n H. KreC And Kabel Cliefatris Privatiana Privatiana Privatiana Doph. Herensen Superios VIENNA Ang. 30 Crestanistan Permoser Superta | 93 -54 12912 + 12 275m1 + 2 19451 - 14 115 -6 13414 + 14 14114 + 12 18412 - 1 | 12 12 12 12 11 11 12 12 12 12 10 9, 58 | 8.5 3.9 0.2 9.0 7.7 2.9 6.5 2.9 3.6 | MILAN Aug. 30 ANIC | 7.250 11,700 11,700 11,700 Price Lire 105.25 639 2,038 1,640.6 173.5 13,800 179 1,156 1,718 1,156 1,718 921 | -50 -23 +73 +54.5 +330 +7 +300 +9 -16 +10 +9 | Div. 1 Lire 160 150 1206 | 5.1 1.9 7.4 9.2 4.4 | AUA Artki 150) Auta Lava Bikr60) Arta Lava Bikr60) Arta Lava Bikr60) Arta Kr50) Attas Lava Bikr60 Arta Kr50 Billerud Boforo Carrio Certulosa Certulosa Elect 'ux' B' (Kr50 Eresson 'B' Kr50 Undebolm | \$10 143 90.0 127 67.5 115 190 227 144 142 302 100 61.5 87 115 67 257 75 177 75.6 | -0.5 +1 +2 +1 +1 -10 +5 +1 +2 | 5.75 10 5.75 10 5.75 9.6 4 16 8 5.75 | 2 5.55.6 5.55.6 4.75.5 4.44.4 4.44.4 4.0 2.0 2.0 4.9 6.9 |

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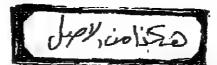
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Locust threat in **Ethiopia**

GENEVA, August 29.

SWARMS of locusts are threatening crops in three north central Ethiopian provinces already affected by drought, the League of Red Cross Societies said here.

The Desert Locust Control THE EGGS AUTHORITY is However, he edded, some sectors Organisation for East Africa is under pressure from farmers to had doubts because of the necestrying to combat the swarms introduce a subsidised slaughter sity to have such a scheme with aerial spraying but is handicapped by insufficent planes and laying hens. A decision is then by the EEC Commission bad flying conditions.

The drought causing severe food shortages for nearly 2m people in Ethiopia, especially in Western Wollo province, now affects all eight districts Tigray province and three dis tricts of Gondar province. Reuter

U.S. palm oil imports fall

WASHINGTON, August 30.

219.7m lbs, compared with 333.4m have had a series of meetings the market. lbs in the comparable period a in recent weeks, and Mr. Weller But a mee

Kill hens to save egg trade, say farmers

BY OUR OWN CORRESPONDENT

Appealing for action yester time all the proper channels had day, Mr. Mike Weller, chairman been negotiated the crisis would of the National Farmers' Union be out of control.

However, Mr. Weller insisted be out of control.

However, Mr. Weller insisted that if all interested parties were with a payment of 20p for every bird killed.

The cost, he said, would be good chance that the scheme borse by the eye industry as a could be in control.

U.S. IMPORTS of palm oil during July fell to 19.1m lbs from 26.4m in June and were down from 35.0m in July 1977, census bureau figures show.

The bulk of the July imports came from Malaysia (19.0m lbs).

Other suppliers were Canada and Liberia.

In the first seven months of 1978 palm oil imports were 1978 palm oil imports were 219.7m lbs, compared with 333.4m.

This would reduce the glut of cost of culling 2.5m hens would be about £500,000, he said. Compared with the industry's current losses of £2m to £2.5m s week this was "chickenfeed."

A culling scheme was first proposed in June, when Mr. Denis when they would start laying Cummings, chief executive of and "in no time we would be that the slaughter of 500,000 old that the slaughter of 500,000 old least to square one."

Egg industry representatives hens would restore balance to have had a series of meetings the market.

in recent weeks, and Mr. Weller But a meeting of the authority claimed there was general sup-decided such action was port for the hen culling option, premature.

Brighter hopes for British wool

Bumper jute crop brings price slump

By Our Own Correspondent CALCUTTA, August 30.

A BUMPER Indian raw jute crop variously estimated between 7.5m and 8m bales has brought prices crashing in the growing areas (North Bengal, Assam and Bihar) minimum of Rs.150 a quintal. Only a month ago raw jute prices ruled at Rs.300 a quintal as against the official ceiling of Rs.225.

According to West Bengal's Minister of Agriculture the prices ruling in most of the grow-ing areas in West Bengal (which grows more than 50 per cent of

cost, there was a could be could be in operation by the beginning of October.

Cother proposals before the Eggs Authority, the industry's main marketing and advisory organisation, include a plan to sell off 11m eggs a week cheaply to processors.

This would reduce the giut of eggs depressing the retail market and push up prices in the shops.

But Mr. Well are now active mass a cost, there was a could be in operation by the beginning of October.

Egg producers have been losing money for more than five months although they have consistently ignored warnings that they were over-stocking with soil off 11m eggs a week cheaply to processors.

This would reduce the giut of eggs depressing the retail market and push up prices in the shops.

But Mr. Well as through its co-operatives, to boost prices in the market. The Jute Commissioner has also raised the limit for raw jute stocking by mills from four wend of eggs depressing the retail market and push up prices in the shops.

But Mr. Well as through its co-operatives, to boost prices in the market. The Jute Commissioner has also raised the limit for raw put stocking by mills from four wend the shops.

The cost of culling 2 mass and the shops weeks to eight weeks. between Rs.125 and Rs.140 a quintal.

The Jute Corporation of India, which is to make price support our chases, has been asked to intensity its purchases by itself as well as through its co-operatives to boost prices in the market. The Jute Commissioner has also raised the limit for raw jute stocking by mills from four weeks to eight weeks.

EFC SUSAL

EFC COMMISSIONER A ways 30.

THE EEC Commission authorised co-operatives and support in easing a lack of interests in coloperatives of a lack of interests in coloperatives and similar groups have been intensity its purchases by itself as such," the report says.

But the main underlying fault activities appears to have been or producer groups which would gamble and its often welcomed activities appears to have been on producer groups which would gamble and its often welcomed activities appears to have been responsible for market open its frontiers and depend entirely for their success in maintenance activities appears to have been responsible for market open its frontiers and allow free trade in maintenance activities appears to have been responsible for market open its frontiers and depend entirely for their success in maintenance activities appears to have been responsible for market open its frontiers and the industry springs from the maintenance activities appears to have been responsible for market open its frontiers and depend entirely for their success in mission in Brussel's for a bear of the industry and the industry springs from the industry springs from the industry springs from the waying and the member. The Dutch, the author commander of support incasures.

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EFC Commission authorised in co-operative will suffer the maintenance of support incasures.

The producer groups which would allow free trade in maintenance of support incasures.

The Dutch, the author commander of support incasures.

The Dutch, the author of weeks in the industry springs from the maintenance control of the maintenance control of the maintenance control of the maintenanc

whites.

The maximum export rebate was cut to 25,640 units of account per 100 kilos from 25,649 ua the previous week.

Our Kingsten correspondent writes: The current Jamaican sugar crop has so far yielded 286.941 tons, and there are indications that when the crop closes in a few weeks this will have reached 300,000 tons.

THE British Wool Marketing agreement with the Government countries. So while we welcome board paid out £2.36m last year runs out in 1980. The British farmers' returns to keep British farmers' returns The Brand is hopeful however. Production so far represents a recovery after an uncertain start the commodity—to the season when several fac known as hedging. The Board is hopeful, however, them as the start of any major

Anarchy in French potato market

THE DIFFICULTIES faced by no heavy investments in it is own potential may well. So the final resolution of the British potato growers pale machinery or storage at risk, have been seriously shaken."

And although the private The author is quick to draw sector in France must await the compared with the hazards conwholesale trade is "portrayed as the comparison between the improvements in the agricultural fronting French farmers and the having few virtues, being circultural distinctions set up to put an cuitous and costly, as well as ings to reduce the disorder in engineered by the French end to the anarchy ruling in exploiting farmers "it is still the French market and the professor of the proposals put forward by the proposals put forward by the

their market.

The evidence to support this view is published at length in a report, released yesterday, which can only strengthen the British Government's resolve to insulate the UK market as far as possible from the unwelcome disruptive pressures which plague the Continental potato industry.

Fraud, the author declares, is commonplace among those in France charged with supplying marketing and statistical data. Other vital market information

THE POTATO Marketing Board yesterday urged all growers in Britain to take up its offer to buy 10 per cent of

their crops. Reluctant farmers were warned that the Board might not be able to raise market prices fully to the guaranteed level over the

outcome of the pending case in the European court regarding the import ban in the UK," the board sald in its weekly market

Market prices have steadied a little this week, although

"Much will depend on the size of any surplus and on the tonne and the highest £43.50, handling the bulk of the French posals drafted by the EEC Com. European Court of Justice—is

supplies are still adequate, and average returns are still well short of the guaranteed level. Lowest price recorded is £20 a

the proposals put forward by the Commission of the EEC are unlikely to provide any substantial alleviation from the problems of instability and it seems that the Community is a long way from insulating itself from the potendisruptive effects of th French maincrop potato market, The report, which was spon sored by the Potato Markeling Board, is published at a time when the ultimate Common

the Indian crop) are now is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the EEC Com. European Court of the Indian crop is simply not available because handling the bulk of the French posals drafted by the

U.S. farmers attack futures trading

Theoretically, producers and the latest effort to have users of a commodity can profutures banned is a Bill before text themselves against price the Senate, sponsored by Maine fluctuations by selling or buying Senators Edmund Muskie and contracts for future delivery of Mr. William Hathaway, both the commodity—the practice Parameters of the commodity—the practice produced in the commodity—the practice produced in the practice of th the commodity — the practice Democrats. It would ban all U.S.

SOME MAINE potato farmers contracts in 1977. Of those who trading increases with a farmer's artists gambling on the board."

are petitioning Congress to ban did, only 39.7 per cent traded acreage, education and income. Analysis counter that specufutures trading in their principal commodities they used or proposite. "We should get back duced themselves. That means farmers, like growers of other markets by assuming a risk that to marketing potatoes rather the majority of farmers who commodities, use futures use hedgers are not willing to take, than playing around with paper," trade futures aren't hedging but changes as scapegoats for low Speculators make markets more speculators. Mr. Helmuth says.

The petitioning Congress to ban did, only 39.7 per cent traded acreage, education and income. Analysis counter that speculators play a key role in futures product. "We should get back duced themselves, That means farmers, like growers of other markets by assuming a risk that commodities, use futures use futures use futures are not willing to take, than playing around with paper," trade futures aren't hedging but the face of rising costs, liquid by bridging gaps between

known as hedging.

In practice, farmers tend to which takes place on the New

Much of the controversy buyers and sellers, analysts add. centres on the role of specula. Without speculators, prices tors, for whom growers use such might be more volatile, some say, terms as "big-city, fast-buck AP-Dow Jones

Coconut oil output

But the Board is quite happy about the situation. For the third year running we shall be no further that there will be no which that there will be no further that there will be no which that the period of the sample of the sample of the submit of the sample of the sam

meet the short and from our own nowever, and note of caution. "We cannot coming back into sheep will off- and special high grade and galspill had more than F4.5m to really detect any sustained set those leaving the register vanising grade alloyed with lead
meet any future deficiencies upturn in the economies of the because of farm amalgamation and aluminium 36.25 cents.

Reuter

| Commodity farmers tend to trade futures from 610,000 tonnes last season. Oil World expects the trend of
futures Trading Commission, more than smaller ones, one The publication notes that in oil over copra exports to conmeet any future deficiencies upturn in the economies of the because of farm amalgamation and aluminium 36.25 cents.

| Reuter | Sill per cent of farmers said they study found. Many experts an effort to make up for its tinue.
| Sill per cent of farmers said they study found. Many experts an effort to make up for its tinue.
| Commodity farmers tend to trade futures from 610,000 tonnes last season. Oil World expects the trend of
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COMPANY NOTICE

Lloyds Bank Internacional (France) Limited 43 Boulevard des Capucines Paris 2(e)

Banque de l'Indochino es de Sues. 96 Boulevard Haussmann

96 Boulevard Hammann
Paris 8(e)
London Secretaries
Union Corporation (U.K.) United
Princes House
95 Gresham Surger
London, EC2V 785

30th August, 1976

BASE METALS

good covering. This trend was reversed rise to 28,800 in the morning rings with in the afternoon, however, as stop-loss a feature of trading being the sheener selling on Couler custed the price here of the usual hedge selling. The formers Metal Exchange. Rumours of overnight at this level and forward metal lifted to metal duality 18,700 on the late Revis. Turnover 1,230 tonnes.

CUPPER: A.M. Amalgapassad.

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Amaisamated Metal Trading reported that in the morning cash wirebars traded that in the morning cash wirebars traded that in the morning cash wirebars traded that in the morning trade 738-.5 TM Higher to fairly active trading.
The stradings of the Penang market saw forward standard metal open at 18,539 and

I.G. Index Limited 01-351 3466. 3: 39 Lamont Road, London SW10 0HS. 3 months copper 742.5 to 749.0 Tax-free trading on commodity futures.
 The commodity futures market for the smaller investor.

> UNION CORPORATION LIMITED reporated in the Republic of South Afr SHARE PURCHASE SCHEME

NOTICE IS HEREST GIVEN that a General Meeting of members of the Corporation will be held on the Ground Floor. Union Corporation Building, 74/78 Marshall Street, Johannesburg on Thursday 14th September 1978 at 9,30 a.m., for the purpose of considering and if deemed fit. of paring with or wishout modification the Ordinary resolution full details of which have been

Holders of share warranes to bearer are advised that copies of the cument posted in the registered shareholders are available from the office the London Socretaries. Details of the procedure to be followed should y holder of share warrants to bearer derire to attend in person or by proxy to your at the general meeting are obtainable from any of the undermentioned

per pro UNION CORPORATION (U.K.) LIMITED
London Secretaries
L. W. HUMPHRIES

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| 1 | chab a mouths ett mint U. Sp. 4 Morning 50, 40,75, Taree months 134 | 541.5 346.5-7 341.5 Three 1 49, 46, 46 (b) 5346, | 1.25 + .25 1.5 nombs 7.5, 37 | 42.5-8 347-8 351.65 551.65 46.8 46.8 | 49. Kert |
| 1 | destruction of the second of t | 541.5 346.5-7 341.5 Three 1 37, 45, 4 ths 8346, 4 4, 48-5, 47 | 1.25; 1+.25; 15; 1.5; 1.5; 7.5, 57 60.5, 24 | 2 347-8 347-8 351.45 E38, 45 46.8 ternoon; Rerb; | 49: Kerh Thre |
| | o nooth and to the second of t | 541.5 346.5-7 341.5 Three 1 49, 45, 4 45, 46, 4 4, 48, 48, 4 19, 45, 1 19, 45, 1 | 1.25, 1+.25, 15, 1.5, 1.5, 7.5, 57, 60.5, Af | 2 347.8 347.8 351.65 E38, 45 45.8 termoon; Kerb; d follow | . 49.3 Kert Thre |
| | o moughe dering the forming to the f | \$41.5 346.5-7 341.5 Three 1 43, 45, 4 45, 45, 44 4, 48 5, 47 7, 46.5, 48 19 pper and | 1.25; 1+.25; 125; 1.5; 1.5; 1.5; 47; 10.5; Ai 10.47; 48; 10.47; | 2 347-8 347-8 551.65 EFER. 45.8 termoon: Rerb; d following forward for | . 49.1 Kert Three ing the |
| | a mouth, set and to the set and to t | \$41.5 346.5-7 341.5 Three I 49, 48, 46 40, 48-16, 47 7, 44.5, ightly flow 10 5793.5 | 1.25; + .25; 1.5; 1.5; 1.5; 1.5; 1.5; 1.6; 1.4; 1.4; 1.4; 1.4; 1.4; 1.4; 1.4; 1.4 | 42.5-8 347-8 351.65 EMS. 45. 46.S. ternoon: Rerb; d following | |
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Morning: Cash \$33.5, three months 128, 28.5, 25, 27.5, 26.5. Kerb: Three months 128.5. Afternoon: Three months 128.5, Kerb: Three months 128.5. "Cities per 900nd, 15M uer good,

SILVER

ROBUSTAS eased in the morning on couraged levels, v. follows-through selims; and long liquidation from Thesitor's easy close, Drewel Burnham Lambert reported. Under-pinning trade support halm deeding and a firm purformance in New York "C" contract prompted a raily to a last night's alosing levels in final-afternoon. Trade short-couring ut the close pushed values higher still and final levels were irregularly ranged around the previous December. February.

RUBBER

erterts; 's + cr 77.80 +0.29 80.35 +4.15 85.23 +0.19 82.65 +3.15 68.10 +0.46 +D.29

SUGAR

LONDON DAILY PRICE fraw sugary 94.90 feature a touse of for allotment shipment. White Sugar daily price was fixed at Life.30 (196.30).

Out. 25.50 3.50 15.75 56.75 56.75 56. Dec. 35.55 5.50 16.40 50.75 36.40 16.15 15.15 20 Mancia 10.1.67 11.53 10.1.74 01.7511 2.25 01.50

| 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120

COFFEE

ARABICAS—Close (In order buyer, seller—Aug. 198.96.50. \$1.00.000 sellers.

Earlier Unquested.

Sept.-Oct. 198.96, Gissgow sellers.

Sept.-Oct. 198.96,

Aug. 50 Lug 29 Month with Year age

1458.0 1460.9 1421.3 | 1485.9 | (Base: September 18, 1931=109) DOW JONES 30 39 490 490 'Int 374,71 370,97 353,89 358,90 f'intime i576,50,365,89 348,43,324,84 (Average 1974-23-26=100)

MOODY'S

U.S. Markets

Strong finish by cocoa; copper falls

NEW YORK, August 20.
COCOA Raished strong on aggressive
Commission Rouse and Chartest buying.
Processia metala closed steath on con-Commission Rouse and Chartest buying. Procouls metals closed steady on continued specializine buying in remeved specialize buying in remeved specialize buying in remeved lears of accelerating midstion. Copper closed lower on continued specialize handation and stop-loss selling. Soyabran lutures and grains closed higher, Buchar reported.

Cocse—S.pt. 158.10 (137.35), Dec. 136.70 (132.10), March 153.25, May 159.70, July 168.80. Sept. 148.10, Dec. 143.55, Sales: 1.266 lets.

Coffee—"C" Contract: Sept. 156.50 (138.25), Dec. 147.51-19.80 (148.71), March 139.50-139.30, May 135.90, July 137.58-114.60, Sept. 130.00-132.00. Dec. 125.09-130.00. Sales: FS. Iost.

Copper—Sept. 62.63 (63.45), Oct. 63.49 (143.5), Nov. 63.95, Dec. 63.50, July 65.73, Sept. 66.60, Dec. 69.53, Jun. 69.65, March 70.70, May 168.55 (63.45), Oct. 63.49, July 65.35-65.65 (64.65), Dec. 65.70-65.76 (66.12), March 67.70, May 64.45-65.80, July 65.35-65.65, Oct. 65.66-65.80, July 65.35-65.65, Oct. 65.66-65.80, Suly 65.72-9, Oct. 208.80 (205.40), Nov. 210.10, Dec. 211.80, Feb. 214.70, April 277.90, June 211.20, Aug. 214.70, April 278.90, June 211.20, Aug. 214.70, April 278.90, June 211.20, Aug. 214.70, April 278.90, June 211.20, Aug. 214.70, Aug. 279.90, Dec. 231.10, Feb. 219.800 lot.

23.96, Der. 277.90, Dum. 231.96, Fren. 231.96, Auril 238.46, June 241.96. Solver. 19.000 lot.
19.000 lot.
10.000 l

Tin-594.00-604.00 none, 1585.00-600.00

Company Address Telephone New York University School of Continuing Education

European-American COMMODITIES CONFERENCE October 2 and 3, 1978, London Hilton An essential conference for all who use, regulate, effect and are affected by commodity markets world-wide-food processors, farmers, brokers, bankers and traders. This is a unique opportunity to hear experts, advise on current trends, forecast significant developments and provide critical analyses of the U.S. and European markets. The conference is structured by New York University and the Chicago

discussion between delegates and speakers. Course fee: \$US 310 (including V.A.T.). For further details complete this coupon and return to the

> Division of Career and Professional Development 34 Stanford Road, London W8-5PZ: Tel: 01-937 3163

Board of Trade to encourage maximum participation from and

Credit Suis Paradeplatz 8 8021 Zurick

1976 141.00 (40.76); Robustas ICA 1900 141.25 (144.00). Daily average 147.17

SLIGHTLY EASHER opening on the Lunden pursual market. Fair interest throughout the day clooms on a slightly steadher write. Lewis and Pear reported a Malaystan gottom prace of Sci (same) cents fluxer, Scott.

GRAINS

CAPTA—The centre of the afternoon eased the market sights no chose 16-20 up, held reported.

WOOL FIFTH The agent of the afternoon eased the market sights no chose 16-20 up, held reported.

COCOA

Mar. 96,60 ~ C.16 E.8.10 ~ 1.10 bid. May

Experience the gather fifth of the secondary because the engineers being less after the preparing their land this properties.

Mar. 96,65 ~ C.16 E.8.10 ~ 1.00 bid. May

Experience being less after fifth of the secondary being less after

Israel stops

sugar subsidy

ISRAEL MAY have to increase its imports of sugar as a result of a Government decision to

stop subsidising local sugar refiners which hitherto received the equivalent of 3600 a tonne on a cost-plus basis, while the world market price is about \$220. Since farmers have already

TEL AVIV. August 30.

Golds enliven otherwise drab session in stock markets Short Gilts lose $\frac{1}{2}$ —Equity share index down 2.8 at 503.0

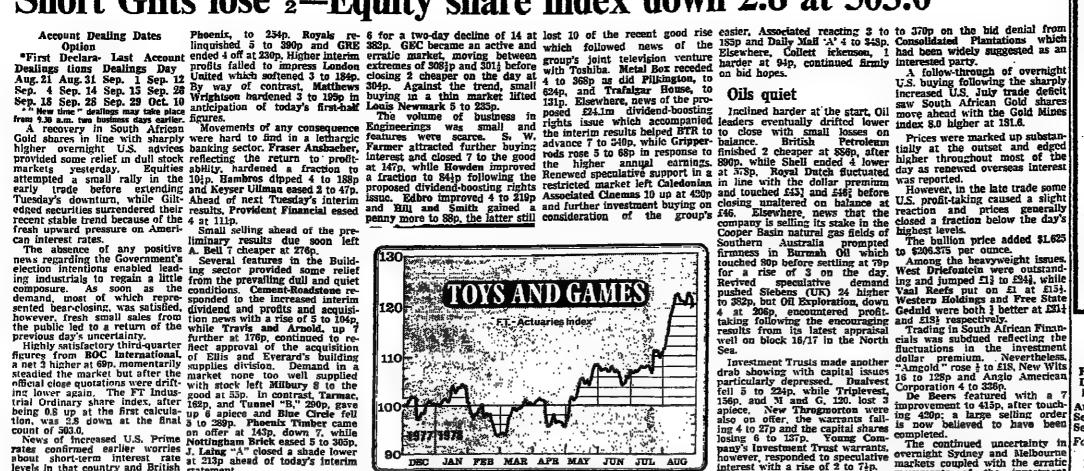
recent stable trend because of the fresh upward pressure on American interest rates.

The absence of any positive news regarding the Government's election intentions enabled leading industrials to regain a little composure. As soon as the demand, most of which represented bear-closing, was satisfied, however, fresh small sales from the public led to a return of the previous day's uncertainty.

Highly satisfactory third-quarter figures from BOC International, a net 3 higher at 69p, momentarily steadied the market but after the official close quotations were drifting lower again. The FT Industrial Ordinary share index, after being 0.8 up at the first calculation, was 2.8 down at the final count of 503.0.

News of increased U.S. Prime rates confirmed earlier worries about short-term interest rate levels in that country and British Funds reacted accordingly. The shorter maturities especially began to look susceptible and few funds appeared to be available to counter the offerings which eventually brought falls extending to 1. Support was also lacking at the longer end of the market where loses ranged to 1.

perinter the offerings which eventually brought falls extending to the complete of the complete of the complete of the complete of the control of the contro



helped by favourable comment growth potential lifted Ricardo 4

respectively.

Pearl disappoint

The disappoint mere so fill better at 27p, after 28p, increase prompted a fall of 12 to 23p in Pearl and served to undermine sentiment in other Insurances. Ahead of next Wednesday's ances. Ahead of next Wednesday's half-yearly results. Sun Alliance dipped 10 to 586p, while General Cableform. 72p, and A.B. Electrical shed inproved 2 more to 182p, after 28p, and at 14p compared with the issue extremes of 14lp and 13p, closed at 14p compared with the issue cording 114 and 112 deals price of 10p.

BOC better

Against the quietly dull trend of the other miscellaneous industrial leaders, BOC international Apprentices left London yester day to take part in the 24th international Apprentice Competition which is being held this year in Kores.

Competitors from 16 countries will have their skills put to the begun with several major Canathal Canathal

Weir, on the other hand, gave up more to 302p. ICL touched 388p ing leve 3 to 125p in reaction to the dison an investment recommendation of the profits, while appointing first-half profits, while tion but then reacted to close a Peter Brotherhood came on offer net penny off at 385p. Grovebell at 126p, down 4.

Casualties in the Foods sector profits setback. Johnson Matthey among the profits setback. Johnson Matthey among first-half to retailing direct setback. Johnson Matthey among first-half to retailing direct setback.

Accident gave up it to 238p as did tronic 124p. Thorn Electrical shed 163p. Rank Organisation, at 280p. lng and ladies' hairdressing.

fluctuations in the investment dollar premium. Nevertheless. "Amgold" rose \(\frac{1}{2} \) to \(\frac{5}{2} \) New Wits

ing levels and closed little a firm undertone

Conzinc Riotinto edged up Golds sharply higher

Among Textiles, John Haggas bridge fell 6 to 157p.

| YESTERI | DA: | Ľ | |
|---|----------|------------|----------------------|
| British Funds | Up | Down 68 | 501110 . 9 |
| Corpus., Dem. and Foreign Bends Industrials | 2 153 | 15 514 | 47 |
| Financial and Prop Oils | 33 | 258 20 | 227 19 |
| Mines | 42 | 27 | 21 39 |
| ROCENT MADE IN | | 72 | |

Miscellaneous (7).

Mining Finance (4).

Overseas Traders (19)

99 ALL-SHARE INDEX(673).

FINANCIAL TIMES STOCK INDICES

| - i | 20° | 29 | 3 | 24 | 24 | 22 | agu |
|-------------------------|-------|--------|--------|--------|--------|--------|--------|
| | | 50 ST | 20.65 | 70 65 | 20.66 | 70.68 | 70.89 |
| Government Secs | 70,43 | .10.03 | 10.00 | 70.63 | | | 70.78 |
| Pixed Interest | 72.25 | 72.42 | 72.42 | 72.40 | 72.64 | 72,53 | |
| Industrial Ordinary | 503,0 | 505.8 | 613.4 | 509.3 | 519.£ | 523.2 | 500.9 |
| Gold Mine | 181.6 | 173.6 | 176.9 | 177.3 | 175.2 | 182.4 | 111.9 |
| Ord. Div. Yight | ' | 6.28 | 5 20 | 5.51 | 5.16 | 5,13 | 5.19 |
| URL DIV. I LEM | | | 0.20 | | -, | -0 21 | 14.72 |
| Kemings, Y"ki%(fpli)(") | 15.85 | 19.75 | 15,54 | 10.83 | 15.00 | 13.34 | _ |
| P/K Ratio (net)(*() | 8.36 | 8,41 | 8.53 | 8,38 | 8.64 | 8.69 | 9.82 |
| Dealings marked | 4.736 | 4,348 | 4.697 | 6,038 | 5.895 | 5,727 | 5,041 |
| Equity incover &m | | 74.07 | 64.53 | 79.24 | 98.02 | 106.87 | 85.82 |
| Shutty bargains total | | 14.757 | 15.530 | 18.386 | 21.827 | 20.685 | 16,533 |
| squity cargains incom. | | | | | | | |

Largest index 11.306 2024.

*Rayed on 52 per cont curporation tax. † Nilos 8.16.

Basis 100 Govt. Sees. 13/10.76 Fixed Int. 1928. Incl. 0rd. 1/7/35. Gold Mines 12.9-35. NE Activity July-Dec. 1942.

| | - | | | | | | | | |
|------------------------------|-----------------|----------------|---------------------|--------------------|-----------------------------------|----------------|----------------|--|--|
| HIGHS AND LOWS S.E. ACTIVITY | | | | | | | | | |
| | | 378 | Stare Co | mpiletien | | Aug. | A 119. | | |
| _ [| High | Low | - High | - IANG | | 26) | 29 | | |
| Gest. Secs | 78.58 (3/1) | 68.79 (á/b) | 127.4 (9/1/36) | 49.18 (3:1:75) | —Daily Gut-Edged Industries | | 145,3 157,2 | | |
| Pused labour | 61.27 (9;1) | 70,73 (6/ñ) | 150,4 (25/11:47) | 50.53 (3)1,75) | Trials | | 51,7 99,0 | | |
| int. Ordered | 523.2 (223) | 488.4 (2/3) | 649.2 (14/8/11) | 49.4 (36/F/40) | Gult larger Industrials | 136.7 195.5 | 135.2 205.2 | | |
| Gold Mipes. | 206.6 (14.8) | 130.3 | 442.3 | 43,5 (26/10/71) | Speculative | 35.4 118.0 | 38.1 122.5 | | |

OPTIONS

Investment Trusis made another drab showing with capital issues particularly depressed. Dualvest fell 5 to 224p, while Triplevest, 156p, and M and G, 120, lost 3 apiece. New Throgmorton were also on offer, the warrants failing 4 to 27p and the capital shares losing 6 to 137p. Young Company's Investment Trust warrants, however, responded to speculative interest with a rise of 2 to 74p. Apart from Isle of Man Steam Packet, 10 cheaper at 145p, Shippings hovered around the open-ling levels and closed little a firm undertone.

dollar premium. Nevertheless, "Amgold" rose ½ to £1S, New Wits 16 to 128p and Anglo Ametican Caponation 4 to 336p. The continued with a 7 to 128p and Anglo Ametican Deal Declara Settle-lings lings lings lings lines to 128p and Anglo Ametican Corporation 4 to 336p. The Corporation 4 to 336p. Declara Settle-lings lings lings lings lines to 128p and Anglo Ametican Deal Declara Settle-lings lings lings lings lines lings lings lines lings lings lines lings lines with a 7 to 128p and Anglo Ametican Deal Declara Settle-lings lings lings lings lines lings lings lines lings lings lines lings lines with a 7 to 128p and Anglo Ametican Deal Declara Settle-lings lings lings lings lings lings lines lings lings lings lings lings lines lings lings lings lines lings lines lings li in Audiotronic, London Brick, DEALING DATES

LONDON TRADED OPTIONS

| HP | Uption | liz'reise price | Closing offer | Vol. | Circing offer | Vol. | Chaise offer | Vot. | Equity rices |
|---|--------------|--------------------|------------------|--------|------------------|------|-----------------|------|-----------------|
| SP | цр | 750 | 144 | 20 | 184 | | | | 886 |
| Bip S50 S6 S S6 S6 S7 S9 S8 S6 S8 S8 S8 S8 S8 S8 | HP | 800 | 94 | | 124 | | | | |
| BP | | 850 | 50 | | | | | ~~ | |
| Com. Union 180 18 | or : | 900 | | | | | | | |
| Cont. Union 160 313 96 9 4 1312 Com. Union 180 1 - 4 6 Cress Gold 160 55 54 38 10 41 190p Cons. Gold 180 19 9 922 13 29 Cons. Gold 100 1712 19 2 114p Constaulds 100 1712 19 2 15 Constaulds 110 912 6 12 15 Constaulds 130 4 15 7 1 1012 1012 Constaulds 130 4 15 7 1 1012 1012 Constaulds 130 4 15 7 1 1012 1012 Constaulds 180 4 15 7 1 1012 1012 GEO 260 45 55 76 1012 1012 GEO 260 45 55 76 1012 | | | 10 | 8 | | | | | 151. |
| Com. Union 180 15 54 88 10 41 190p Coms Gold 160 55 54 88 10 41 190p Cons. Gold 180 19 9 22 13 39 Cons. Gold 180 19 9 22 13 39 Constant 100 1712 19 2 Contrautid 100 1712 19 2 Contrautid 190 4 18 7 1 1012 Contrautid 190 4 18 7 1 1012 Contrautid 190 4 18 7 1 1012 Gold 190 65 Gold 190 65 Gold 240 65 Gold 240 65 Gold 240 65 Gold 190 190 190 190 190 190 190 190 190 190 | Com. Paion | | 16 | | | | | | |
| Cress Gold 160 35 54 88 10 41 200 Coss.Gold 180 19 9 22 13 29 | | | | | | | | | |
| Cons.Gold 180 19 9 22 13 29 Cons.Gold 180 19 9 22 13 29 Constants 100 1712 19 2 Contratit 100 1712 19 2 Contratit 120 91 6 12 15 Contratit 120 91 6 12 15 Contratit 120 13 4 20 612 Grand 181 220 65 91 76 GRU 260 45 55 45 45 GRU 260 45 55 45 45 GRU 260 45 55 45 16 GRU 260 45 55 45 GRU 260 45 55 45 GRU 260 45 55 45 GRU 350 14 12 23 13 12 20 GRAND 181. 100 54 161 1912 116p Grand 181. 110 54 6 10 18 8 13 GRAND 181. 120 54 6 7 4 812 5 GRAND 181. 120 54 6 7 4 812 5 GRAND 181. 120 55 46 7 4 812 5 GRAND 181. 120 55 46 7 4 812 5 GRAND 181. 120 55 46 7 4 812 5 GRAND 181. 120 55 46 7 4 812 5 GRAND 181. 120 55 5 7 4 812 5 GRAND 181. 120 55 7 5 88 GRAND 181. 120 55 7 5 8 8 GRAND 181. 120 55 7 5 8 8 8 GRAND 181. 120 55 7 5 8 8 8 GRAND 181. 120 55 7 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 160 | 48 | 54 | | | | _ | 190s |
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| Courtailids 150 154 — 81 — 304p (ikk) 240 65 — 81 — 76 — 304p (ikk) 260 45 — 55 — 71 — 76 — 65 — 65 — 65 — 65 — 65 — 65 — 65 | | | 4 - | 15 . | 7 | | | - | |
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| | Totals | - 1 | 1 | 457 | l l | 178 | | 48 | |
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invesiments ind.

INTERIM RESULTS

| | ग्रामाञ्चा प्रार | SIX MONUS | Tearto |
|-----------------------------------|------------------|-------------|-------------|
| | to 30 June, 78 | to30June,77 | 31 Dec., 77 |
| | s'000 2 | £000's | £000's |
| Turnover | 8,055 | 6,930 | 16,718 |
| Operating profit: | | | |
| insurance | 1,756 | 1,273 | 3,279 |
| Other | 80 | 173 | 546 |
| | 1,836 | 1,446 | 3,825 |
| Group overheads | 224 | 210 | 347 |
| Profit before taxation and | | | |
| extraordinary items | 1,612 | 1,236 | 3,478 |
| Taxation | 804 | 614 | 1,929 |
| | 808 | 622 | 1,549 |
| Extraordinary items less | | | |
| transfers from reserves | | 12 | 118 |
| Profit available for distribution | 807 | 610 | 1,431 |
| Cost of dividend | 214 | 180 | 360 |
| OUST OF GIAIGRAIG | | 100 | 300 |

An interim dividend of 2.5p net per share (1977-2.10298p) will be paid on 19 October, 1978 to shareholders on the register as at 20 September, 1978.

> Copies of the Interim Report may be obtained from The Secretary, 20/21 Red Lion Court, London EC4A 3ED.

ACTIVE STOCKS

| | | | No. | | | | |
|---|--------------------|---------|-------|-----------|------------|-----------------|------|
| | De | nomina- | of | Closing | Change | 1978 | 1978 |
| 1 | Stock | tion . | marks | price (p) | on day | high | low |
| | ICI | . £1 | 14 | 398 | _ | 414 | 328 |
| ı | Audiotrne, 12pcPf. | . 10p | 11 | 14 | - | 14 - | 13 |
| 1 | GEC | 25p | 10 | 304 | – 2 | 317 | 233 |
| 1 | Rank Organisatn. | . 23p | 10 | 280 | -10 | 290 | 226 |
| ı | Barclays Bank | . £1 | 9 | 352 | _ | 366 | 296 |
| 1 | BOC Intl | · 25p | 8 | 69 | + 2 . | 79 | 63 |
| 1 | BP | £1 | 8 | 586 | – 2 | 925 | 720 |
| J | Distillers | 50p | 8 | 194 | – 3 | 204 | 163 |
| 1 | Beecham | 25p | 7 | 703 | - 2 | 725 | 583 |
| ı | Berisid. (S. & W.) | 25p | 7 | 166 | + 4 | 166 | 95 |
| | Courtaulds | | 7 | 114 | - 1 | 131 | 109 |
| ı | Luces Industries | . £1 | 7 | 322 | - 1 | 336 | 240 |
| ı | Shell Transport: | 25p | 7 | 578 | - 4 | 602 | 484 |
| ı | Trafalgat House | 20p | 7 | 131 | - 4 | 167 | 117 |
| ı | Unliever | 25p | 7 | 568 | - 8 | 5 96 | 476 |
| | | | | | | | |

RECENT ISSUES

erue Price P‡

| | ~~. | •• | | - | | | | | |
|------------------------|----------------------------|------------|-----|---------------------|-------------------|------|----------------------|---------------------------|------|
| | | | | EQUITIES | - | | | | |
| Americal Fish Up | fatest Recurse. Date | 10 Rigb | i i | ficek | Ulerbing Price | + or | Div. P. or Amount | Thues Covered Choss | P.K. |
| F.P. | 61,8 | AT IR | 71 | Cartiers Superfoods | 78 | | 6d2,47 | 5.1 4.7 | 7.0 |

FIXED INTEREST STOCKS

| | | _ | | - | | _ | |
|------|---|--|--------------------------------|---|--------------------------|--|---|
| Irks | Annual Paki Up | fatest Remaise. Date | · 19 | | Stock | Closing Price & | + 07 |
| 100p | F.P. F.P. F.P. F.P. F.P. F.P. F.P. F.P. | 7/9 15/9 29/9 29/9 29/9 29/9 1/9 29/9 15/9 | 1412 p 25 ta 3812 106 | 13p 96 96 96 97 98 97 98 99 14 99 14 99 94 12 90 12 91 91 91 91 91 91 91 91 91 91 91 91 91 | Audinfronic 123 Conv Pri | 99 9812 9914 9914 1812 10019 10019 9914 9914 9914 9914 9914 99 | +12 +12 +13 -13 -13 -13 +18 |
| | | | | | | | _ |

"RIGHTS" OFFERS

| esue Price p; | Amount Paid Up. | Rez | te-t fille, ste | | Low | Stock - | Closing Price q1 | + or _ | 1 2 |
|--|---|------|---|--|--|---------------|---|-------------|-------|
| 66 20 50 10 70 77 35 94 30 10 64 | Nil Nil F.P. Mil F.P. F.P. F.P. F.P. F.P. | 10/8 | .21:9 27:10 1:9 4:19 8:9 8:9 | 112 pm 9pm 4913 111 72 159 121 | 35 67 1 ¹ 2 pm 79 61 ₂ pm 40 104 56 134 119 | Aaronson Bris | 6pm 1½pm 94 6lgpm 46lg 111 63 155 121 | 1 1 2 2 7 7 | 3 4 5 |

| l | | The Table and a second of a second and a second a second and a second | | | | | | | | | | |
|---------------|----------|---|--|--|---|--|---|--|--|--|--|--|
| EQUITY GROUPS | | | Wed., Aug. 30, 1978 | | | | | Tucs. Aug. | Fri. Aug. 20 | Thurs, Aug. 34 | Wed. Aug. 23 | Year ago (approx) |
| | | ROUPS & SUB-SECTIONS ares in parentheses show number of stocks per section | Index No. | Day's Change | | Gross Div. Yield % (ACT at 33%) | (Net) | Indez No. | Index No. | Index No. | Indes No. | Index No. |
| | 1234568 | CAPITAL GOODS (176) Building Materials (27) Contracting Construction (27) Electricals (14) Engineering Contractors (14) Mechanical Engineering (72) Metals and Metal Forming (16) CONSUMER GOODS | 395.12 521.32 356.10 193.56 175.95 | -0.6 -1.0 -0.7 -0.5 -0.7 -0.4 -0.3 | 15.94 15.93 17.66 13.77 16.91 17.07 16.00 | 5.10 5.13 3.76 3.53 5.82 5.60 8.03 | 8.62 8.80 8.22 10.09 7.87 7.82 8.51 | 242.93 220.94 397.95 524.16 358.46 194.35 176.46 | 245.63 222.97 399.81 532.93 362.03 196.40 178.15 | 244,49 221,86 469,43 527,63 362,41 195,33 178,36 | 247.74 225.45 410.66 532.77 364.87 197.66 180.55 | 206.19 181.46 299.39 432.74 305.15 172.80 162.66 |
| ۱ | 11 12 | (DURABLE) (52) | 216.78 265.46 | -1.2 -1.8 | 16.10 14.07 | 4.87 3.84 | 8.64 9.94 | 219.47 270.33 | 223.17 275.10 | 223.50 275.79 | 225.52 277.75 | 1%.63 238.67 |

Household Goods (12) ... -0.9 -0.4 6.24 6.25 Motors and Distributors (25)... CONSUMER GOODS 131.03 -0.9 -0.8 -1.6 -0.8 (NON-DURABLE) (175) 217.19 5.55 6.06 5.16 6.49 5.18 4.63 3.17 7.19 7.77 7.32 5.35 5.52 5.99 3.68 5.33 5.33 5.93 231.44 278.16 265.97 9.17 9.74 9.72 7.42 10.22 13.99 7.47 Breweries (14)... 233.23 282.75 236.19 288.14 273.09 15.00 234.70 286.27 283.93 269.84 268.22 215.15 270.16 217.24 225.77 402.12 15.00 -0.8 -0.5 -0.2 -0.3 213.47 223.32 17.80 Food Manufacturing (21)... 216.63 225.17 219.97 229.18 189.44 202.17 Food Retailing (15) 224.54 398.86 148.24 207.73 Newspapers, Publishing (13), Packaging and Paper (15), 398.17 147.87 10.20 17.68 398.98 146.38 218.76 181.68 408.85 147.33 309.32 133.96 398.86 402.12 148.24 107.10 207.73 218.66 180.33 182.73 259.19 261.35 119.95 121.23 212.63 215.39 278.19 305.38 277.58 281.73 146.46 143.65 405.68 277.18 278.88 205.49 178.37 10.49 18.42 Stores (40) -11 -12 -04 -04 +03 -02 -27 -02 -08 214.40 184.60 182.98 167.22 7.08 5.51 6.16 8.54 8.12 11.92 7.04 7.07 Textiles (25) 256.11 119.41 21.49 18.98 262.94 121.68 266.50 122.26 37 41 15.29 16.75 OTHER GROUPS (36) 211.80 214.21 300.29 279.77 142.49 419.46 230.47 198.83 278.95 299.22 306.45 283.47 143.35 Pharmaceutical Products (7)... 10.37 16.81 277.02 Shipping (10)... INDUSTRIAL GROUP (495 8.75 230.77 233.35 51 Oils (5) .. 7.45 508.65 517.93 516.09 8.53 254.13 257.23 256.41 252,40 FINANCIAL GROUP(180) Banks(6) 193.13 -0.1 -1.2 -1.4 -1.5 -0.1 -0.5 -1.2 -0.8 -1.0 -1.0 24.21 6.20 193.13 194.43 217.96 218.04 194.09 Discount Houses (10)... 217.82 7.94 5.68 6.25 6.53 4.48 8.78 — — 10.79 217.62 166.81 151.76 136.69 Hire Purchase (5)..... Insurance (Life) (10). 162.06 145.77 15.03 164.06 147.85 162.92 150.30 134.22 354.76 136.21 358.68 86.36 13.26 138.34 127.77 361.55 354.99 354.48 Merchant Banks (14). 85.59 3.22 22.30 2.99 16.36 5.72 2.94 7.37 86.02 251.94 114.21 54.44 86.16 260.17 86.45 263.13 117.64 Property (31) 257.71 107.58 335.42

| | FIXED INTEREST PRICE INDICES | | | | | | | FIXED INTEREST TIELDS Br. Govt. Av. Gross Red. | | | Year ago (approx.) |
|--------|------------------------------|---------------------|----------------------|-------------------|----------------------------|-------------|-------------------|--|-------------------------|-------------------------|--------------------------|
| Br | itish Government | Wed., Aug. 30 | Day's change % | xd adi. To-day | ad adj. 1978 to date | 1 2 3 | Low Coupens | 5 years | 8.54 10.98 11.65 | 8.74 10.90 11.60 | 6.45 10.86 11.76 |
| 1 2 | Under 5 years 5-15 years | 104.53 114.87 | -0.29 -0.46 | - | 6.70 7.04 | 4 5 6 | Medium Coupons | 5 years 15 years 25 years | 11.68 12.14 12.14 | 11.52 12.19 12.11 | 9.86 31.82 12.26 |
| 3 4 | Over 15 years | 120.68 126.96 | -0.36 -0.34 | .1 1 | 9,21 8,91 | 7 8 9 | High Coupons | 5 years | 11.65 12.64 | 11.51 12.58 12.79 | 16.12 12,98 13.09 |
| 5 | All stocks | 172.76 | -0.35 | | 7.72 | 10 | Irredeemah | les | 11.60 | 11.58 | 33.67 |

232.07 -0.7 - 5.26

107.86

332.91

5.81

234.79 107.82 332.59

239,72 108,32 331,52

107.91 333.88

4.44 33.41 6.41 7.44 6.74 7.65

204.66 95.92

96.07

| | | | | | | | | | | 1120 | 11.67 |
|--|----|--------------------------------|---------------|------------|-------|------------|------------|------------|-------|--------|-------|
| 10 Investment Trust Prets. (15) 51.27 13.60 51.32 51.32 51.32 51.30 51 | | , | Index Yield | Хиц. 29 | Aug. | Aug. 24 | Aug. 23 | Анц. 22 | Ang. | Aing. | ag. |
| 10 Investment Trust Prets. (15) 51.27 13.60 51.32 51.32 51.32 51.30 51 | 15 | 20-yr. Red. Deb & Loans (15) | 57.81 12.84 | 57.82 | 57.82 | 67.82 | 57.82 | 57.82 | 57.78 | e57.79 | 54.4 |
| [· · · · · · · · · · · · · · · · · · · | 10 | [tuvestment Trust Prets. (15) | 51.27 13.60 | 51.32 | 51.32 | 51.39 | 61 20 | | l = ' | 1 _ | l / |

LEADERS AND LAGGARDS

Gold Mines F.T.

Huring Finance

Mechanical Engineering

Engineering Contractors

Toys and Games

Overseas Traders

Contracting and Construction

Electronics, Radio and TV

Capital Goods Group Goods (Durable) Gro

All-Share Index Consumer Goods (Non-Durable) Group 29. 1978

OFFSHORE AND OVERSEAS FUNDS

Samuel Montagu Ldn. Agts.

Richmond Life Ass. Ltd.

finitial offer, tweekly Dealings.

Pricads' Provid. Unit Tr. Mgrs. V
Putham End, Dorking.
Putham End, Dorking.
Pricads Prov. Un. 1612 497 - 52 3.66
Do Accum. 1652 497 - 52 3.66 Schlesinger Trust Mngrs, Ltd. (a) (z) Transallantic and G

91-90 New London Rd

91-90 New London Rd

13-10

14-crum Units: 12-11

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1 Ridgelield Management Ltd. 2.St Mary Ave. ECSA 88P. Tyndall Managers Ltd. Gibbs (Automy) Unit Tst. Mgs. Ltd.
3. Frederick's Pt. Old Jowy, EC2 01-5886111
mi A.G. Income* 442 484 750
mi A.G. Oroviny, 482 434 458
(MA.G. Far East. 259 423 438
Dealing Tues, 1996. | Barclays Unicorn Int. (I. O. Man) Ltd. | Thomas St. Douglas, I o.M. | 0824 4836 | Lloyds International Mgmnt. S.A. | Unicorn Aust. St. | 150 7 | 29.8 | -0.8 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 1 Scottish Equitable Fnd. Mgrs. Ltd. | 15-19, L'necolo 3 Inn Fields, WC2 | 01-871 6865 9 | Do Acrum | 15-19, L'necolo 3 Inn Fields, WC2 | 01-871 6865 9 | Erry Inc. Growth | 67.1 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | 15-19 | Pearl Trust Managers Ltd. (alight) Royal Tst. Can. Fd. Mgrs. Ltd. Archway Unit Tst. Mgs. Lid. (a)(c) Royal Exchange EtaP JPN

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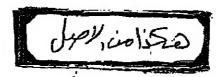
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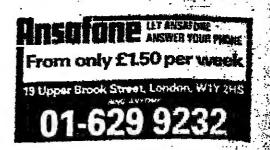
FINANCIALTIMES

Thursday August 31 1978

airbus project

to join

BY LYNTON MCLAIN



Waldheim proposes 7,500 Britain agrees UN troops for Namibia

BY OUR OWN CORRESPONDENT

UNITED NATIONS, August 30.

UNITED NATIONS Security bankruptcy. Both South Africa permit an accurate assessment of Council members will meet and the South-West Africa the cost of the operation, to be behind closed doors tomorrow to People's Organisation (SWAPO) known as the UN Transition consider how to proceed with want the UN's help, and the UN Assistance Group, UNTAG. But plans to mount massive UN troops' function would be largely military and civilian operations to monitor a cease-fire between (5154m) About \$33m (\$160m) plans to mount massive UN troops function would be largely that it could be as high as 5500m military and civilian operations to monitor a cease-fire between (£154m). About \$33m (£16m) BRITAIN HAS agreed in principal announcement announcement designed to help bring Namibia the South Africans and the (£154m). About \$33m (£16m) BRITAIN HAS agreed in principal announcement announcement designed to help bring Namibia the South Africans and the would be needed to finance the ple to join the European Aibus about joining the Airbus produced the Consortium with France and gramme is likely to include the Consortium with France and

dependence from South Africa.

In a written report to the Council today, Dr. Kurt Waldheim, Secretary General, proposed the dispatch to Namibia of Tance, West Germany, and posed the dispatch to Namibia of about 1.200 officials and extra staff, as well as 360 civilian mendations were based—called police.

Operation

Would be needed to manife the consortium with France and gramme is likely to include the return of refugees and exiles to the territory, he said.

The Namibia settlement plan the territory, he said.

The Namibia settlement plan the territory, he said.

Prisoners

Under the proposals, the South African authorities must scrap discriminatory laws, and of the Security Council—on the territory.

Prisoners

Under the proposals, the South African authorities must scrap discriminatory laws, and of the Security Council—on the territory. Prisoners and discriminatory laws, and now Saint Gobain, have launched rights offerings to raise a total of Frs. 1.2bm Airway's Boeing discriminatory laws, and now Saint Gobain, have launched rights offerings to raise a total of Frs. 1.2bm Airway to buy the new Asion of the Security Council—on the territory. This residue would be needed to manife the territory and exiles to the territory, he said.

Prisoners

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Mr. Varley, in his talks last night with the French Transport Minister, last night that he 757 order.

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Operation

the territory. This residue would be confined to one or two bases. Their task would be to main-tain law and order and arrange, —which is larger than France to a constituent assembly, which. The UN troops would monitor the approve a constitution leading to the South African forces, prevent in twould be by far the largest operation by the UN since it demobilisation of citizen forces, target and also specifically called became involved in the Congo operation, which of too many unknown factors to deadline.

The ormal British Government action to participate in the electoral process.

The formal British Government decision to join the Airbus Choose its aircraft for choose its aircraft for comments after the South of British Airways to mounter the right of British Airways to mount decision to join the Airbus Choose its aircraft for counter which is larger than France could be held seven months after the Scourity Council gave the the Scourity Council gave the the Scourity Council gave the French ovar continued free dom for British Government with ermen

ton Mining 5 per cent.

Burmah sells Australian gas and oil interests

BY KEVIN DONE IN LONDON AND JAMES FORTH IN SYDNEY

ings in three quoted Australian It is understood that Burmah The Bond Corporation is companies engaged in oil and has been open to an offer for headed by Mr. Allan Bond, a gas exploration and production some months, facing the prosin the Cooper Basin, South pect of investments in the Australia. Burmah's interests at Cooper Basin of £5m to £6m over being bought out by a group the next three years.

Cup.

Cup.

Ninian Field and 65 per cent of able to the Burmah Group from its share in the Thistle Field. this investment was A\$1.3m.

Investments

The disposals were necessary ment authority. to help Burmah cope with the financial crisis of 1975.

BURMAH OIL is selling all its By contrast, the sale of the is made up of Bond Corporation remaining oil and as exploration Cooper Basin interests would 50 per cent, Endeavour Resources and production interests in allow funds to be released for 30 per cent, a Bond family com-Australia in a deal worth about investment in other business pany 10 per cent, Amalgamated E20.8m areas, the company said yester. Industries 5 per cent and Leighton Mining 5 per cent

Holdings and Endeavour Resources.

Burmah stressed yesterday that the sale was not linked to its programme of selling off major assets, which ended in 1976.

Burmah is selling its 37.5 per cent interest in Santos, its 30.9 per cent interest in Basin Oil NL. and its 67 per cent interest in Reef Oil NL. These interests back into natural resoruces for the Bond Group, which earlier this year acquired tin mining

The three companies together Investments

A year earlier. Its disposals included the sale of £179m worth of shares in British Petroleum.

The tree companies together control 46.64 per cent of the Cooper Basin joint venture, which involves 11 parties including a South Australian Government.

Free choice

which has urged British Aerospace and the Government to
back the U.S. aircraft rather

T. Conference British Aerofor the Whole
aircraft, much to the annoyance
of the French.

FT Conference, Page 5

Euston Square office let to U.S. group

BY JOHN BRENNAN, PROPERTY CORRESPONDENT

The Cooper Basin supplies letting for many years.

natural gas liquids.

Burmah sold its other Australian Government authority.

The consortium that has bought out the Burmah interests bought out the Burmah interests.

North West Shelf natural gas found bave agreed to pay just under Union to finance three of the British Rail's asking rent of four office blocks in the developtions of paying £3m a year, with a ties, ICI's pension fund, to slight rental concession until its finance the rest of the £32m move to the building next year.

Express

Company in the letting negotic financing partners.

The group, advised by White, Miller
Druce and Brown, is believed to Druce and Brown, is believed to Union to finance three of the British Rail's asking rent of four office blocks in the develoption of the building next year. The funds leased-back British Rail, which was repret the offices to British Rail's sented by Edward Erdman and Company in the letting negotic line of the first of the £32m move to the building next year.

Company in the letting negotic line of the £32m move to the building next year.

British Rail, which was repret the offices to British Rail's sented by Edward Erdman and Company in the letting negotic line of the £32m move to the building next year.

British Rail, which was repret the offices to British Rail's sented by Edward Erdman and Company in the letting negotic line of the £32m move to the building next year.

British Rail, which was repret the offices to British Rail's sented by Edward Erdman and Company in the scheme was taken over by the adquarters staff into the rest its financing partners.

Continued from Page 1

U.S. bank and BCCI

blue ink. The credit report con-Kraus' affadavit is a copy of a tained a statement that Bank memoradum dated May 10, 1976, of America should have an from Mr. Alvin Rice, recently-officer present at BCCI at all retired vice-chairman of Bank times.

of America, to Mr. Scudder of America, to Mr. Scudder

Mr. Kraus was also informed Mersman, senior vice-president, that the credit report said that in response to concern about BCCI had made a "substandard loan" to its subsidiary Kuwait International Finance Company in previous court proceedings, that BCCI. After examining BCCI's bank-International Finance Company in previous court proceedings, that BCCI 'needs much tighter KIFCO admitted lending Faisal Saud Al-Fulaij, a Kuwaiti businessman, \$5m, \$3.5m of which was used to pay for financial would shortly be filing its own general stock purchased on his behalf.

Attached as an exhibit to Mr. made in the affidavit.

Weather

RATHER COOL, some rain in the Max. 16C (61F).

north, but temperatures near Isle of Man, S.W. Scotland, normal in central and southern Glasgow, Argyll, N. Ireland areas.

Rain or drizzle, becoming dry
London, S.E. and Cent. S. Eng- with sunny intervals. Max. 170

land E. Anglia, Channel Islands (63F).

Dry, sunny spells. Max. 19C Borders, Edinburgh Dundee, (65F).

Aberdeen, Highlands, Moray Midlands, E. England, S. Wales Sunny intervals, some rain. Max. 19C (66F).

S.W. England Dry, sunny intervals. Max. 18C (64F). N. England, N. Wales, Lakes BUSINESS CENTRES

Newspapers' managing director and deputy chairman, and

N.E. Scotland, Orkney, Shetland Some rain, sunny intervals. Max. 13C (55F) N.W. Scotland Some rain becoming brighter Max. 14C (57F). Outlook: Dry with sunny periods. Showers in the east.

Aberdeen, Highlands,

Max. 16C (61F).

Firth

Some rain, sunny periods later.

HOLIDAY RESORTS

THE LEX COLUMN

The rush to raise equity in Paris

Rights issues have crossed Within one holiday week two French companies, first Comthe Bourse as something more than a purveyor of public debt to French investors.

The market is now full of speculation that other French ompanies-Aquitaine, Michelin, Lafarge to name a few-will soon be following suit. This talk has left investors a little

part of British Aerospace, designed and manufactured the provided further encourage tions. wings for the A300. It made a The engine is backed by the substantial profit from the venNational Enterprise Board, the ture without incurring any ment has allowed French profits have risen from under an uninterrupted growth trend development costs for the whole citizens to deduct Frs 4.900 of £3.0m to £29.0m and with a in profits turnover assumed. development costs for the whole

BTR's triple

assured a place for itself in recent rights issue history by BOC International announcing its third rights issue major assets, which ended in Exploration.

The price of the deal is interests in New South Seales assets worth 1853.4m, will be paid over the period to interests in the assets worth Seales in the sale of its interests in the North Seales in the North Seales in the sale of its the end of November next year.

The brice of the deal is interests in New South Wales and oil interests in Texas by buying the sales of its the end of November next year.

The brice development was the sale of its the end of November next year.

The third quarter figures sales is expected to rise by the sales of the sale of the deal is interests in New South Wales and oil sales are of the group's other building price actually put on 7p to close that underlying profits are of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. Difference in the sources.

The Difference held by Burmah Australia the Bond Group, which earlier this year acquired tin mining The U.S. engineering group, of the 307,000 sq ft development was the fluor, has rented the 237,000. The development was the price actually put on 7p to close that underlying profits are of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. Difference of the sale of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. Difference of the sale of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. Difference of the sale of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. The counter face of the sale of the group's other building on the face of it looks a rather trading profits outside the U.S. could be a fifth better. The counter face of the sale of the group's other building of the sale of the group's other building of the sale of the group's other building of the sale for commercial buildings on the has at least demonstrated in the statement is notable for its price increase since January

months) plus the purchase of per cent by June following the stand at a prospective p/e of.

Andre Silentbloc and Allied Airco purchase. As expected, about 81 on a 10 per cent tax.

Polymer here in the UK, the BOC has added a little sugar to charge.



in today to report to Herr Martin aircraft workers.

The French, British and German state secretary in the Ministry of Economic Affairs on the outcome of the London talks.

British Airways wants to buy the Boeing 757 airliner for its 100m, equivalent to 20 per to may buy the 757 early next year after Rolls-Royce has been given the expected go-ahead for the Dash 535 version of the Dash 535 version of the Boeing.

British Airways wants to buy the 757 early next year after Rolls-Royce has been given the expected go-ahead for costs of the earlier France the Dash 535 version of the Boeing.

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British Airways wants to buy the 757 early next year after Rolls-Royce has been given the expected go-ahead for costs of the earlier France the Dash 535 version of the Boeing.

British Airways wants to buy at the Boeing with a right issue rais form the double to fast and the resolved to totally unexpected. Since the total light of 1977 short-term borrow large the Airbuy buy to totally unexpected. Since the total flux of 1977 short-term borrow large the Airbuy buy to totally unexpected. Since the total light of 1977 short-term borrow large the Airbuy buy to total Government's subsequent drive balance sheet flexible enough to pared with £14.8m last time,

> increased the corporation tax should be heading for £40m, 0.77n; last year the figure was relief on dividends paid on plus in the current year. BTR 10.46p. On only two occasions newly issued shares. French reckons that roughly half of its during the period has the divibankers are now talking about growth is coming from its old the need for an orderly queue established businesses and the to keep the flow of rights issues rest from acquisitions. So far it has proved for more growth. Here in Britain BTR has with an aggressive acquisition of the prime beneficiaries of

The Cooper Basin supplies natural gas to Sydney and Adelaide. It has proven reserves of about 3 trillion (million) cubic feet of gas and about 314m barrels of oil and natural gas liquids.

Burmah sold its other Australian exploration interests in the lian exploration interests in the limited and the liquid and the solution of the late of four office blocks in the develop
The Cooper Basin supplies ratural gas to Sydney and Fluor (Great Britain). Which Euston Station site.

Fluor (Great Britain). Which Euston Station site.

Fluor (Great Britain). Which Euston Station site.

The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last. The scheme begun in 1974, past that it can use the money inclusion of a group balance 1977 have prevented a good part formally signed the deal last forma

this consolidation by taking in the English Channel in earnest. Index fell 2.8 to 503.0 Airco's fixed assets at replace. ment cost rather than their last U.S. book value which looks to have been of the order of £140m lower. This has been enough to prevent the gearing. ratio from appearing as 52 per cent or so, but at the same time the group's p and b account is being burdened by. a stiff depreciation charge,

On the trading front, BOC' 15 hoping for an improvement in the UK but it is questionable whether this will show up in the final quarter. Apart from South Africa, which is picking up, the picture elsewhere is unexciting and Airen, despite a buoyant U.S. economy, is being held back by losses on its

for a free market economy has accommodate future acquisi- During the past seven years since the group was formed citizens to deduct Frs 4,900 of £3.0m to £29.0m and with a in profits, turnover, earnings share purchases each year from 34 per cent rise in profits under and dividentle. In 1970 carntaxable income. It has also its belt at the halfway stage, it ings per share amounted to

Dominating the country's has proved far more successful building materials industry than many other companies in (with a monopoly in cement) combining rapid organic growth Cement-Roadstone has been one Ireland's recent economic boom. In the current year, for example, the volume of cement in three years to raise £24.1m. The third quarter figures sales is expected to rise by

Scotland considered for new Texas plant

BY JOHN LLOYD

Robb Wilmot, managing director had examined sites in Ireland of Tevas Instrument's UK sub- and Scotland, and that any plant sudjary, said that there would be set up by the company would be a "significant product announce- a major one. ment" next week.

months, Inquiries have been right grants, made through the Scottish Study of computer staff needs, (Development and

TEXAS Instruments, the U.S. Industry) and are the largest it multimational semiconductor has handled for several years, company, plans to set up a major. The sites are in the Kyle, plant in Europe. Central Scotland and the Irish Republic are the most favoured areas.

The sites are in the Kyle, Carrick and Motherwell districts and at East Kilbride. Cumbernauld and Irvine New Towns.

the most favoured areas.

The company would not confirm a choice of site yesterday.

The would it say what the plant at Texas's Dallas headquarters, would produce. However, Mr. Said yesterday that the company

The plant would employ around 2.500 people and would altract several grants. Strathprobably manufacture a range of semiconductor products, including instrumentation equipment. There has been some speculation that the company will expend its mistrumentary.

Election of a Scottish site would mean that Texas could altract several grants. Strathclyde, as a special development area, qualifies for an automatic for new development.

The Scottish Office is also pro-The Scottish Office is also pro-

will expand its microprocessor capability in Europe.

The company has examined six possible 25-acre sites in the Strathclyde region in the last two months. I require the site of the Industry Act, varying from low interest downs to outside the site of the sit

Page 10

Continued from Page 1

U.S. prime rates

out of present options."

tion policy is being prepared cent to 9.2 per cent.
and that wage and price con. At its best, the dollar touched trols are still being ruled out. SwFr 1.6480, compared with Michael Blanden writes: The SwFr 1.6350 the previous day. revious day.

The Japanese yen ended at In overnight trading in Tokyo, V189.10 to the dollar against

on Tuesday after the nearly a fail of 45 points on the day. U.S. July trade deficit of nearly a fail of 45 points on the day. S3bn. At one point in Tokyo, the Its trade-weighted index was U.S. currency dropped by nearly unchanged at 62.4.

but argued that "We have run Y6, one of the biggest falls in a single day's trading. The Administration is known It opened slightly weaker in to be looking at the taxation European markets yesterday,

approach to a prices and in-picked up in London and New comes policy but the difficulties. York on the prime-rate news, but of devising a workable system lost some of the improvement are thought to rule it out as an later. The dollar's weighted early option. Government depreciation, calculated at moon spokesmen have indicated that in New York by Morgan a second stage of its anti-infla-Guaranty, widened from 8.9 per

rise in U.S. bank lending rates It remained below the DM2 level gave modest respite to the dollar at DM 1.9890 compared with after the heavy pressure the DM 1.9910.

In overnight trading in 1985, 1188,10 to the dollar against the dollar had fallen sharply in Y189,45, the dollar had fallen sharply in Y189,45. The pound reached \$1.9510 at on Tuesday after the news of the its best, but closed at \$1.9410 for

today on new paper

By John Lloyd PLANS FOR a new national daily paper, to be published by Express Newspapers from its Manchester plant, were being discussed by the Express Board

last night. An announcement is expected to be made today. Mr. Derek Jameson, editor of the Daily Express, said yesterday that the proposed paper would be a "Daily Mirror-Sun hybrid," and that it would compete with the Daily Express Dally Express.

It would aim for a circula-tion of around 2m, and Mr. Jameson said he would keep "a fatherly eye" on its develop-

ment.
The editor is likely to be Mr. Peter Grimsditch, former deputy editor of Reveille magazine. He had been tipped for the job of editor of a new London evening newspaper which the Express group is

also investigating.

More than three quarters of the 170 Daily Express Man-chester editorial staff will be transferred to the new paper, which may be called the Daily

Mr. Jameson said that It would attract northern sales by being able to include late news and late sports results. How-ever, it was intended that it would be a fully national newspaper, "available in Cornwall and the north of Scotland the next morning."

A London editorial office independent of the Express, would handle national political and other news. Today's announcement is likely to follow talks between Mr. Jocelyn Stevens, Express

representatives of the Express unions in Manchester.

The new paper will face keen competition from the Sun, which sells more than 4m copies daily and has welladvanced plans to print a Scottish edition in Glasgow. The Glasgow-produced Sun

could contain much of the same late sports and other news as

the new Express newspaper,

Y'day
midday
T'C °F
F 15 98 Madrid
S °S 81 Machutt.
S 35 95 Melbourne
S 37 81 Mexico C.
S 27 1 Mexico C.
S 28 New York
F 16 61 Oslo
S 21 70 Paris
I 0 30 Perthu
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